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MISSION STATEMENT

BroadWave Technologies is a customer driven, woman owned small business. We are committed to manufacturing a broad range of high-quality components that provide innovative solutions to our customers. Our Design, Manufacturing, Marketing, and Service teams have over 70 years of combined industry experience. We listen to our customers and respond with on-time deliveries at competitive prices.

WARRANTY

BroadWave Technologies' products are warranted free from defects in materials and workmanship for a period of one year from the date of shipment. At our option, we will repair or replace returned product. This warranty does not apply to products that have been modified or subject to conditions exceeding the applicable specifications. BroadWave Technologies, Inc. shall have no liability for incidental or consequential damages resulting from improper use or negligence.

This warranty is the extent of BroadWave Technologies' liability for its products. No other warranty is expressed or implied.

Please contact customer service at customerfirst@broadwavetech.com or call 317.888.8316 to arrange for product return.

SHIPPING

BroadWave Technologies will use the best method of shipment unless specified by the buyer. The standard method is UPS, prepaid and bill. FOB is Greenwood, Indiana.

RESPONSIVE SOLUTIONS

Visit us online at: www.BroadWaveTech.com to describe the details of your application. Simply click on *Inquiry Form* and complete the form. Then click *Send Form*. You will receive a prompt response within the first business day of your inquiry.

SPECIFICATIONS

Specifications are subject to change without notice. As applicable, please contact the factory at customerfirst@broadwavetech.com or call 317.888.8316 to verify specifications.

TERMS

Standard terms are net 30 days for established customers. New customers, subject to credit approval, are also net 30 days. BroadWave also accepts MasterCard and VISA for payment.

International orders require approved credit, an Irrevocable Letter of Credit payable through a United States bank, PROFORMA Invoice or cash in advance. FOB is Greenwood, Indiana.

Customer First Service

customerfirst@broadwavetech.com

or

317.888.8316

SAME SERIES IMPEDANCE MATCHING PADS

Model	Frequency Range	50 Ohm Connector	75 Ohm Connector	Input Power
851-871-MM2	DC - 2 GHz	SMA male	SMA male	1 Watt
851-871-MM3	DC - 3 GHz	SMA male	SMA male	1 Watt
851-871-FF2	DC - 2 GHz	SMA female	SMA female	1 Watt
851-871-FF3	DC - 3 GHz	SMA female	SMA female	1 Watt
851-871-MF1	DC - 1 GHz	SMA male	SMA female	1 Watt
851-871-MF2	DC - 2 GHz	SMA male	SMA female	1 Watt
851-871-MF3	DC - 3 GHz	SMA male	SMA female	1 Watt
851-871-MF4	DC - 4 GHz	SMA male	SMA female	1 Watt
851-871-FM2	DC - 2 GHz	SMA female	SMA male	1 Watt
851-871-FM3	DC - 3 GHz	SMA female	SMA male	1 Watt
852-872-FF2	DC - 2 GHz	N female	N female	1 Watt
852-872-FF3	DC - 3 GHz	N female	N female	1 Watt
852-872-MF1	DC - 1 GHz	N male	N female	1 Watt
852-872-MF2	DC - 2 GHz	N male	N female	1 Watt
852-872-MF3	DC - 3 GHz	N male	N female	1 Watt
852-872-FM2	DC - 2 GHz	N female	N male	1 Watt
852-872-FM3	DC - 3 GHz	N female	N male	1 Watt
852-872-FM4	DC - 4 GHz	N female	N male	1 Watt
853-873-FF2	DC - 2 GHz	TNC female	TNC female	1 Watt
853-873-MF2	DC - 2 GHz	TNC male	TNC female	1 Watt
853-873-MF3	DC - 3 GHz	TNC male	TNC female	1Watt
853-873-FM2	DC - 2 GHz	TNC female	TNC male	1 Watt
854-874-FF2	DC - 2 GHz	BNC female	BNC female	1 Watt
854-874-MF1	DC - 1 GHz	BNC male	BNC female	1 Watt
854-874-MF2	DC - 2 GHz	BNC male	BNC female	1 Watt
854-874-FM1	DC - 1 GHz	BNC female	BNC male	1 Watt
854-874-FM2	DC - 2 GHz	BNC female	BNC male	1 Watt

CUSTOM IMPEDANCE MATCHING PADS

Model	Frequency Range	50 Ohm Connector	25 Ohm Connector	Input Power
851-891-FM0	DC - 500 MHz	SMA female	SMA male	1 Watt

Model	Frequency Range	50 Ohm Connector	90 Ohm Connector	Input Power
854-894-MF0	DC - 500 MHz	BNC male	BNC female	1 Watt

Model	Frequency Range	50 Ohm Connector	93 Ohm Connector	Input Power
891-851-MF1	DC - 1 GHz	SMA female	SMA male	2 Watts
854-894-MF1	DC - 1 GHz	BNC male	BNC female	1 Watt
854-894-FM1	DC - 1 GHz	BNC female	BNC male	1 Watt

Model	Frequency Range	50 Ohm Connector	125 Ohm Connector	Input Power
894-118-IMP	DC - 1 GHz	BNC male	BNC female	1 Watt

Model	Frequency Range	50 Ohm Connector	600 Ohm Connector	Input Power
894-147-IMP	DC - 1 GHz	BNC male	BNC female	1 Watt
894-170-IMP	DC - 3 GHz	BNC female	BNC male	1 Watt
894-160-IMP	DC - 1 GHz	N male	BNC female	1 Watt

Model	Frequency Range	50 Ohm Connector	1000 Ohm Connector	Input Power
854-894-MF0	DC - 50 MHz	BNC male	BNC female	1 Watt
854-159-IMP	DC - 150 MHz	BNC male	BNC female	1 Watt

Complete specifications and outline drawings are available on our web site or consult the factory.



DC BLOCKING IMPEDANCE MATCHING PADS*

Model	Frequency Range	50 Ohm Connector	75 Ohm Connector	Input Power
851-879-FFB	30 - 3000 MHz	SMA female	F female	1 Watt
851-879-FMB	30 - 3000 MHz	SMA female	F male	1 Watt
854-874-MFB	1 - 1800 MHz	BNC male	BNC female	1 Watt

* Please specify the impedance that requires DC blocking.

BETWEEN SERIES IMPEDANCE MATCHING PADS

Model	Frequency Range	50 Ohm Connector	75 Ohm Connector	Input Power
851-872-MM2	DC - 2 GHz	SMA male	N male	1 Watt
851-872-MF1	DC - 1 GHz	SMA male	N female	1 Watt
851-872-MF2	DC - 2 GHz	SMA male	N female	1 Watt
851-872-FM2	DC - 2 GHz	SMA female	N male	1 Watt
851-873-FM3	DC - 3 GHz	SMA female	TNC male	1 Watt
851-874-MF1	DC - 1 GHz	SMA male	BNC female	1 Watt
851-874-MF2	DC - 2 GHz	SMA male	BNC female	1 Watt
851-874-MF3	DC - 3 GHz	SMA male	BNC female	1 Watt
851-874-FM2	DC - 2 GHz	SMA female	BNC male	1 Watt
851-874-FM3	DC - 3 GHz	SMA female	BNC male	1 Watt
851-879-MM2	DC - 2 GHz	SMA male	F male	1 Watt
851-879-MM3	DC - 3 GHz	SMA male	F male	1 Watt
851-879-FF1	DC - 1 GHz	SMA female	F female	1 Watt
851-879-FF2	DC - 2 GHz	SMA female	F female	1 Watt
851-879-FF3	DC - 3 GHz	SMA female	F female	1 Watt
851-879-MF1	DC - 1 GHz	SMA male	F female	1 Watt
851-879-MF2	DC - 2 GHz	SMA male	F female	1 Watt
851-879-MF3	DC - 3 GHz	SMA male	F female	1 Watt
851-879-MF4	DC - 4 GHz	SMA male	F female	1 Watt
851-879-FM1	DC - 1 GHz	SMA female	F male	1 Watt
851-879-FM2	DC - 2 GHz	SMA female	F male	1 Watt
851-879-FM3	DC - 3 GHz	SMA female	F male	1 Watt
852-871-MF2	DC - 2 GHz	N male	SMA female	1 Watt
852-871-FM1	DC - 1 GHz	N female	SMA male	1 Watt
852-871-FM2	DC - 2 GHz	N female	SMA male	1 Watt
852-873-FM4	DC - 4 GHz	N female	TNC male	1 Watt
852-874-FF2	DC - 2 GHz	N female	BNC female	1 Watt
852-874-MF1	DC - 1 GHz	N male	BNC female	1 Watt
852-874-MF2	DC - 2 GHz	N male	BNC female	1 Watt
852-874-FM2	DC - 2 GHz	N female	BNC male	1 Watt
852-879-MM1	DC - 1 GHz	N male	F male	1 Watt
852-879-MM2	DC - 2 GHz	N male	F male	1 Watt
852-879-MM4	DC - 4 GHz	N male	F male	1 Watt
852-879-FF2	DC - 2 GHz	N female	F female	1 Watt
852-879-FF3	DC - 3 GHz	N female	F female	1 Watt
852-879-MF2	DC - 2 GHz	N male	F female	1 Watt
852-879-MF4	DC - 4 GHz	N male	F female	1 Watt
852-879-FM1	DC - 1 GHz	N female	F male	1 Watt
852-879-FM2	DC - 2 GHz	N female	F male	1 Watt
852-879-FM3	DC - 3 GHz	N female	F male	1 Watt

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BETWEEN SERIES IMPEDANCE MATCHING PADS

Model	Frequency Range	50 Ohm Connector	75 Ohm Connector	Input Power
853-874-MF2	DC - 2 GHz	TNC male	BNC female	1 Watt
853-874-FM2	DC - 2 GHz	TNC female	BNC male	1 Watt
853-879-FF2	DC - 2 GHz	TNC female	F female	1 Watt
853-879-MF1	DC - 1 GHz	TNC male	F female	1 Watt
853-879-MF2	DC - 2 GHz	TNC male	F female	1 Watt
853-879-MF3	DC - 3 GHz	TNC male	F female	1 Watt
853-879-FM2	DC - 2 GHz	TNC female	F male	1 Watt
854-872-MM2	DC - 2 GHz	BNC male	N male	1 Watt
854-873-MF2	DC - 2 GHz	BNC male	TNC female	1 Watt
854-873-MF2	DC - 2 GHz	BNC male	TNC female	1 Watt
854-873-FM2	DC - 2 GHz	BNC female	TNC male	1 Watt
854-879-FF2	DC - 2 GHz	BNC female	F female	1 Watt
854-879-MF1	DC - 1 GHz	BNC male	F female	1 Watt
854-879-MF2	DC - 2 GHz	BNC male	F female	1 Watt
854-879-MF3	DC - 3 GHz	BNC male	F female	1 Watt
854-879-FM1	DC - 1 GHz	BNC female	F male	1 Watt
854-879-FM2	DC - 2 GHz	BNC female	F male	1 Watt

DC BLOCKS

Model	Frequency Range	RF Connector	Maximum Voltage	Impedance
851-144-BLK	10 MHz - 1 GHz	SMA male / SMA female	200 Vdc	50 Ohm
851-032-BLK	10 MHz - 3 GHz	SMA male / SMA female	50 Vdc	50 Ohm
851-138-BLK	10 MHz - 3 GHz	SMA male / SMA female	200 Vdc	50 Ohm
851-031-BLK	10 MHz - 6 GHz	SMA male / SMA female	100 Vdc	50 Ohm
851-053-BLK	10 MHz - 10 GHz	SMA male / SMA female	100 Vdc	50 Ohm
851-008-BLK	10 MHz - 18 GHz	SMA male / SMA female	200 Vdc	50 Ohm
851-104-BLK	5 kHz - 23 GHz	SMA male / SMA female	100 Vdc	50 Ohm
851-046-BLK	30 kHz - 23 GHz	SMA male / SMA female	100 Vdc	50 Ohm
851-139-BLK	10 MHz - 3 GHz	SMA female / TNC male	100 Vdc	50 Ohm
852-074-BLK	10 MHz - 2.5 GHz	N male / N female	100 Vdc	50 Ohm
852-032-BLK	10 MHz - 3 GHz	N male / N female	50 Vdc	50 Ohm
852-144-BLK	10 MHz - 3 GHz	N male / N female	200 Vdc	50 Ohm
852-006-BLK	10 MHz - 6 GHz	N male / N female	50 Vdc	50 Ohm
852-034-BLK	10 MHz - 18 GHz	N male / N female	200 Vdc	50 Ohm
852-078-BLK	1 MHz - 2.5 GHz	N male / BNC female	100 mW	50 Ohm
853-032-BLK	10 MHz - 3 GHz	TNC male / TNC female	50 Vdc	50 Ohm
854-124-BLK	150 kHz - 500 MHz	BNC male / BNC female	250 Vdc	50 Ohm
854-151-BLK	5 MHz - 1800 MHz	BNC male / BNC female	500 Vdc	50 Ohm
854-007-BLK	10 MHz - 2 GHz	BNC male / BNC female	100 Vdc	50 Ohm
854-032-BLK	10 MHz - 3 GHz	BNC male / BNC female	50 Vdc	50 Ohm
857-105-BLK	10 MHz - 40 GHz	2.9mm male / 2.9mm female	200 Vdc	50 Ohm
872-145-BLK	10 MHz - 1 GHz	N male / N female	500 Vdc	75 Ohm
874-107-BLK	10 MHz - 2 GHz	BNC male / BNC female	100 Vdc	75 Ohm
874-150-BLK	1 MHz - 3 GHz	BNC male / BNC female	100 Vdc	75 Ohm
879-071-BLK	10 MHz - 2 GHz	F male / F female	50 Vdc	75 Ohm
879-094-BLK	100 MHz - 1700 MHz	F male / F female	50 Vdc	75 Ohm
879-126-BLK	10 MHz - 3 GHz	F male / F female	50 Vdc	75 Ohm

Complete specifications and outline drawings are available on our web site or consult the factory.



FEED THRU TERMINATIONS

Model	Frequency Range	RF Connector	Average Power	Impedance
851-101-FTT	DC - 1 GHz	SMA male / SMA female	2 Watts	50 Ohm
891-057-FTT	DC - 100 MHz	SMA male / SMA female	1 Watt	93 Ohm
891-164-FTT	DC - 1 GHz	SMA male / SMA female	2 Watts	100 Ohm
851-054-FTT	DC - 1.5 GHz	SMA male / SMA female	1 Watt	50 Ohm
852-010-FTT	DC - 1 GHz	N male / N female	2 Watts	50 Ohm
853-048-FTT	DC - 1 GHz	TNC male / TNC female	1 Watt	50 Ohm
854-048-FTT	DC - 1 GHz	BNC male / BNC female	1 Watt	50 Ohm
854-114-FTT	DC - 500 MHz	BNC male / BNC female	2 Watts	50 Ohm
854-009-FTT	DC - 1 GHz	BNC male / BNC female	2 Watts	50 Ohm
854-153-FTT	DC - 1 GHz	BNC male / female	5 Watts	50 Ohm
874-048-FTT	DC - 500 MHz	BNC male / BNC female	1 Watt	75 Ohm
874-115-FTT	DC - 500 MHz	BNC male / BNC female	2 Watts	75 Ohm
874-019-FTT	DC - 1 GHz	BNC male / BNC female	2 Watts	75 Ohm
894-050-FTT	DC - 100 MHz	BNC male / BNC female	2 Watts	93 Ohm
894-133-FTT	DC - 1 GHz	BNC male / BNC female	2 Watts	150 Ohm
894-113-FTT	DC - 100 MHz	BNC male / BNC female	2 Watts	300 Ohm
894-121-FTT	DC - 500 MHz	BNC male / BNC female	1 Watt	600 Ohm
894-326-FTT	DC - 1 GHz	BNC male / BNC female	5 Watts	600 Ohm

50 OHM RF DETECTORS

Model	Frequency Range	RF Input / DC Output Connectors	Polarity	Input Power
851-130-POS	1 - 2500 MHz	SMA female / SMA male	Positive	100 mW maximum
851-130-NEG	1 - 2500 MHz	SMA female / SMA male	Negative	100 mW maximum
851-096-POS	1 - 2500 MHz	SMA male / SMA female	Positive	100 mW maximum
851-096-NEG	1 - 2500 MHz	SMA male / SMA female	Negative	100 mW maximum
851-152-POS	1 - 2500 MHz	SMA male / SMA male	Positive	100 mW maximum
851-152-NEG	1 - 2500 MHz	SMA male / SMA male	Negative	100 mW maximum
851-078-POS	1 - 2500 MHz	SMA male / BNC female	Positive	100 mW maximum
851-078-NEG	1 - 2500 MHz	SMA male / BNC female	Negative	100 mW maximum
851-154-POS	1 - 4000 MHz	SMA male / BNC female	Positive	250 mW maximum
851-154-NEG	1 - 4000 MHz	SMA male / BNC female	Negative	250 mW maximum
852-162-POS	1 - 2500 MHz	N male / N female	Positive	100 mW maximum
852-162-NEG	1 - 2500 MHz	N male / N female	Negative	100 mW maximum
852-002-POS	100 kHz - 1000 MHz	N male / BNC female	Positive	100 mW maximum
852-002-NEG	100 kHz - 1000 MHz	N male / BNC female	Negative	100 mW maximum
852-078-POS	1 - 2500 MHz	N male / BNC female	Positive	100 mW maximum
852-078-NEG	1 - 2500 MHz	N male / BNC female	Negative	100 mW maximum
854-142-POS	200 kHz - 1500 MHz	BNC male / BNC female	Positive	100 mW maximum
854-142-NEG	200 kHz - 1500 MHz	BNC male / BNC female	Negative	100 mW maximum

75 OHM RF DETECTORS

Model	Frequency Range	RF Input / DC Output Connectors	Polarity	Input Power
874-143-POS	200 kHz - 1000 MHz	BNC male / BNC female	Positive	100 mW maximum
874-143-NEG	200 kHz - 1000 MHz	BNC male / BNC female	Negative	100 mW maximum

50 OHM BIAS TEES

Model	Frequency Range	RF Connector	DC Voltage	DC Current
851-084-TEE	1 - 2500 MHz	SMA female	200 Vdc maximum	2 Amps maximum
851-122-TEE	800 - 2000 MHz	SMA female	150 Vdc maximum	5 Amps maximum

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LOW POWER 50 OHM SMA TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
551-068-001	DC - 6 GHz	1.10:1	1 Watt	SMA male
551-089-001*	DC - 6 GHz	1.15:1	1 Watt	SMA male
551-275-001*	DC - 6 GHz	1.20:1	1 Watt	SMA female
551-024-001*	DC - 18 GHz	1.25:1	1 Watt	SMA male
551-088-001	DC - 18 GHz	1.20:1	1 Watt	SMA male
551-138-001	DC - 18 GHz	1.20:1	1 Watt	SMA male w/ beadchain
551-330-001	DC - 18 GHz	1.30:1	1 Watt	SMA male w/ beadchain
551-106-001	DC - 26.5 GHz	1.30:1	1 Watt	SMA male
551-041-001	DC - 18 GHz	1.15:1	1 Watt	SMA female
551-242-002	DC - 6 GHz	1.15:1	2 Watts	SMA female
551-192-002	DC - 18 GHz	1.20:1	2 Watts	SMA male
551-197-002	DC - 18 GHz	1.15:1	2 Watts	SMA female
551-110-002*	DC - 26.5 GHz	1.35:1	2 Watts	SMA male
551-229-005	DC - 4 GHz	1.25:1	5 Watts	SMA male
551-103-005	DC - 6 GHz	1.25:1	5 Watts	SMA male
551-093-005	DC - 12.4 GHz	1.25:1	5 Watts	SMA male
551-122-005	DC - 18 GHz	1.25:1	5 Watts	SMA male
551-122-010	DC - 18 GHz	1.25:1	10 Watts	SMA male
551-142-030	DC - 3 GHz	1.35:1	30 Watts	SMA male
551-144-030	DC - 3 GHz	1.35:1	30 Watts	SMA male
551-312-030	DC - 4 GHz	1.35:1	30 Watts	SMA male
551-314-030	DC - 4 GHz	1.35:1	30 Watts	SMA female
551-313-030	DC - 6 GHz	1.50:1	30 Watts	SMA male
551-315-030	DC - 6 GHz	1.50:1	30 Watts	SMA female

* Gold Plated

HIGH POWER 50 OHM SMA TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
551-311-050	DC - 1 GHz	1.30:1	50 Watts	SMA male
551-142-050	DC - 3 GHz	1.35:1	50 Watts	SMA male
551-282-050	DC - 4 GHz	1.35:1	50 Watts	SMA male
551-144-050	DC - 3 GHz	1.35:1	50 Watts	SMA female
551-283-050	DC - 4 GHz	1.35:1	50 Watts	SMA female
551-142-100	DC - 3 GHz	1.35:1	100 Watts	SMA male
551-268-100	DC - 4 GHz	1.35:1	100 Watts	SMA male
551-144-100	DC - 3 GHz	1.35:1	100 Watts	SMA female
551-281-100	DC - 4 GHz	1.35:1	100 Watts	SMA female
551-169-150	DC - 3 GHz	1.40:1	150 Watts	SMA male
551-201-150	DC - 3 GHz	1.40:1	150 Watts	SMA female

Complete specifications and outline drawings are available on our web site or consult the factory.



CONDUCTION COOLED HIGH POWER 50 OHM SMA TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
551-240-100	DC - 2.2 GHz	1.25:1	100 Watts	SMA male
551-199-100	DC - 3 GHz	1.25:1	100 Watts	SMA male
551-101-100	DC - 3 GHz	1.25:1	100 Watts	SMA female
551-240-150	DC - 2.2 GHz	1.35:1	150 Watts	SMA male
551-101-150	DC - 3 GHz	1.35:1	150 Watts	SMA female
551-240-250	DC - 2.2 GHz	1.35:1	250 Watts	SMA male
551-101-250	DC - 3 GHz	1.35:1	250 Watts	SMA female

50 OHM SMA OPEN

Model	Frequency Range	Nominal Reflection	Connector Gender
551-191-001	DC - 18 GHz	100 %	SMA male
551-193-001	DC - 18 GHz	100 %	SMA female

50 OHM SMA SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
551-190-001	DC - 18 GHz	100 %	SMA male
551-194-001	DC - 18 GHz	100 %	SMA female

50 OHM SMA MISMATCH

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
551-324-100	DC - 3 GHz	1.85:1	1 Watt	SMA male

LOW POWER 50 OHM N TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
552-080-001	DC - 2.5 GHz	1.25:1	1 Watt	N male
552-074-001	DC - 3 GHz	1.30:1	1 Watt	N male
552-284-001	DC - 3 GHz	1.30:1	1 Watt	N male w/reverse polarity
552-135-001	DC - 3 GHz	1.20:1	1 Watt	N female
552-133-001	DC - 12.4 GHz	1.30:1	1 Watt	N male
552-185-002	DC - 2.2 GHz	1.30:1	2 Watts	N female w/ beadchain
552-286-002	DC - 2.5 GHz	1.30:1	2 Watts	N male
552-307-002	DC - 2.5 GHz	1.25:1	2 Watts	N male w/ beadchain
552-123-002	DC - 6 GHz	1.20:1	2 Watts	N male
552-173-002	DC - 6 GHz	1.20:1	2 Watts	N male w/ beadchain
552-278-002	DC - 6 GHz	1.30:1	2 Watts	N female
552-098-002	DC - 18 GHz	1.20:1	2 Watts	N male
552-117-002	DC - 18 GHz	1.20:1 DC - 12 GHz 1.45:1 12 - 18 GHz	2 Watts	N male w/ beadchain
552-167-002	DC - 18 GHz	1.25:1	2 Watts	N female
552-156-005	DC - 2.5 GHz	1.30:1	5 Watts	N male
552-306-005	DC - 4 GHz	1.15:1 DC - 1 GHz 1.20:1 1 - 2 GHz 1.25:1 2 - 3 GHz 1.30:1 3 - 4 GHz	5 Watts	N male
552-103-005	DC - 6 GHz	1.15:1	5 Watts	N male
552-122-005	DC - 18 GHz	1.35:1	5 Watts	N male
552-327-005	DC - 18 GHz	1.35:1	5 Watts	N male w/ beadchain
552-140-010	DC - 6 GHz	1.30:1	10 Watts	N male
552-122-010	DC - 18 GHz	1.35:1	10 Watts	N male



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LOW POWER 50 OHM N TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
552-053-020	DC - 6 GHz	1.20:1	20 Watts	N male
552-017-025	DC - 3 GHz	1.35:1	25 Watts	N male
552-287-025	DC - 6 GHz	1.20:1	25 Watts	N male
552-172-030	DC - 1 GHz	1.30:1	30 Watts	N male
552-166-030	DC - 2 GHz	1.30:1	30 Watts	N male
552-142-030	DC - 3 GHz	1.35:1	30 Watts	N male
552-144-030	DC - 3 GHz	1.35:1	30 Watts	N female
552-312-030	DC - 4 GHz	1.35:1	30 Watts	N male
552-314-030	DC - 4 GHz	1.35:1	30 Watts	N female
552-313-030	DC - 6 GHz	1.50:1	30 Watts	N male
552-315-030	DC - 6 GHz	1.50:1	30 Watts	N female

HIGH POWER 50 OHM N TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
552-115-050	DC - 2 GHz	1.20:1	50 Watts	N male
552-181-050	DC - 2 GHz	1.20:1	50 Watts	N female
552-142-050	DC - 3 GHz	1.35:1	50 Watts	N male
552-144-050	DC - 3 GHz	1.35:1	50 Watts	N female
552-212-050	DC - 18 GHz	1.45:1	50 Watts	N male
552-276-075*	DC - 1 GHz	1.30:1	75 Watts	N male
552-277-075*	DC - 1 GHz	1.30:1	75 Watts	N female
552-303-080	DC - 3 GHz	1.25:1	80 Watts	N female
552-183-100	DC - 1 GHz	1.25:1	100 Watts	N male
552-142-100	DC - 3 GHz	1.35:1	100 Watts	N male
552-144-100	DC - 3 GHz	1.35:1	100 Watts	N female
552-268-100	DC - 4 GHz	1.40:1	100 Watts	N male
552-220-100	DC - 4 GHz	1.40:1	100 Watts	N female
552-299-150	DC - 2 GHz	1.30:1	150 Watts	N female
552-310-150	DC - 2.4 GHz	1.25:1	150 Watts	N female
552-169-150	DC - 3 GHz	1.40:1	150 Watts	N male
552-253-150	DC - 3 GHz	1.40:1	150 Watts	N female
552-300-200	DC - 3 GHz	1.40:1	200 Watts	N male
552-331-200	DC - 4 GHz	1.40:1	200 Watts	N female
552-301-250	DC - 3 GHz	1.40:1	250 Watts	N male
552-235-300	DC - 2.4 GHz	1.20:1 DC - 1 GHz 1.50:1 1 - 2.4 GHz	300 Watts	N male
552-036-300	DC - 2.4 GHz	1.20:1 DC - 1 GHz 1.50:1 1 - 2.4 GHz	300 Watts	N female
552-323-500	DC - 3 GHz	1.10:1 DC - 1 GHz 1.25:1 1 - 3 GHz	500 Watts	N male
552-063-500	DC - 2.4 GHz	1.10:1 DC - 1 GHz 1.25:1 1 - 2.4 GHz	500 Watts	N female
552-064-102	DC - 2.4 GHz	1.10:1 DC - 1 GHz 1.25:1 1 - 2.4 GHz	1,000 Watts	N female

*Units manufactured with non-magnetic material.

Complete specifications and outline drawings are available on our web site or consult the factory.



CONDUCTION COOLED HIGH POWER 50 OHM N TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
552-308-050	DC - 4 GHz	1.35:1	50 Watts	N male
552-222-050	DC - 4 GHz	1.35:1	50 Watts	N female
552-305-250	DC - 3 GHz	1.35:1	250 Watts	N male
552-189-250	DC - 3 GHz	1.35:1	250 Watts	N female
552-279-250	DC - 4 GHz	1.35:1	250 Watts	N female
552-249-500	DC - 2.4 GHz	1.30:1	500 Watts	N male
552-248-500	DC - 2.4 GHz	1.30:1	500 Watts	N female

LOW POWER 50 OHM N OPEN

Model	Frequency Range	Nominal Reflection	Connector Gender
552-252-001	DC - 3 GHz	100 %	N male
552-095-001	DC - 3 GHz	100 %	N female

LOW POWER 50 OHM N SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
552-125-001	DC - 3 GHz	100 %	N male
552-094-001	DC - 3 GHz	100 %	N female

LOW POWER 50 OHM N OPEN / SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
552-131-001	DC - 3 GHz	100 %	N male / N male
552-134-001	DC - 3 GHz	100 %	N female / N female

50 OHM N MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
552-266-151	DC - 1 GHz	1.5:1	2 Watts	N male
552-266-021	DC - 1 GHz	2.0:1	2 Watts	N male
552-329-151	DC - 2 GHz	1.5:1	2 Watts	N male
552-329-201	DC - 2 GHz	2.0:1	2 Watts	N male
552-270-451	30 - 88 MHz	4.5:1	30 Watts	N male
552-289-171	2110 - 2170 MHz	1.7:1	100 Watts	N female
552-289-201	2110 - 2170 MHz	2.0:1	100 Watts	N female
552-289-231	2110 - 2170 MHz	2.3:1	100 Watts	N female
552-289-301	2110 - 2170 MHz	3.0:1	100 Watts	N female
552-289-391	2110 - 2170 MHz	3.9:1	100 Watts	N female

93 OHM N MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
592-291-015	DC - 500 MHz	1.0:5	1 Watt	N male
592-291-021	DC - 500 MHz	2.0:1	1 Watt	N male

100 OHM N MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
592-290-015	DC - 500 MHz	1.0:5	1 Watt	N male
592-290-021	DC - 500 MHz	2.0:1	1 Watt	N male

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LOW POWER 50 OHM TNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
553-029-001	DC - 2 GHz	1.25:1	1 Watt	TNC male
553-049-001	DC - 3 GHz	1.30:1	1 Watt	TNC male
553-085-001	DC - 3 GHz	1.20:1	1 Watt	TNC male w/ beadchain
553-285-001	DC - 3 GHz	1.30:1	1 Watt	TNC male reverse polarity
553-050-001	DC - 3 GHz	1.25:1	1 Watt	TNC female
553-322-002	DC - 4 GHz	1.30:1	2 Watts	TNC male
553-219-002	DC - 6 GHz	1.20:1	2 Watts	TNC male
553-234-002	DC - 6 GHz	1.20:1	2 Watts	TNC male w/ beadchain
553-263-002	DC - 8 GHz	1.20:1	2 Watts	TNC male
553-177-002	DC - 12.4 GHz	1.25:1	2 Watts	TNC male
553-120-002	DC - 18 GHz	1.30:1	2 Watts	TNC male
553-316-002	DC - 18 GHz	1.30:1	2 Watts	TNC male w/ beadchain
553-255-030	DC - 2.5 GHz	1.25:1	30 Watts	TNC female
553-142-030	DC - 3 GHz	1.35:1	30 Watts	TNC male
553-144-030	DC - 3 GHz	1.35:1	30 Watts	TNC female
553-312-030	DC - 4 GHz	1.35:1	30 Watts	TNC male
553-313-030	DC - 4 GHz	1.35:1	30 Watts	TNC female
553-313-030	DC - 6 GHz	1.50:1	30 Watts	TNC male
553-315-030	DC - 6 GHz	1.50:1	30 Watts	TNC female

HIGH POWER 50 OHM TNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
553-142-050	DC - 3 GHz	1.35:1	50 Watts	TNC male
553-144-050	DC - 3 GHz	1.35:1	50 Watts	TNC female
553-303-080	DC - 3 GHz	1.35:1	80 Watts	TNC female
553-142-100	DC - 3 GHz	1.35:1	100 Watts	TNC male
553-144-100	DC - 3 GHz	1.35:1	100 Watts	TNC female

LOW POWER 50 OHM TNC SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
553-124-001	DC - 1 GHz	100 %	TNC male
553-271-001	DC - 1 GHz	100 %	TNC female
553-158-001	DC - 2 GHz	100 %	TNC female
553-223-002	DC - 2.4 GHz	100 %	TNC male
553-272-002	DC - 2.4 GHz	100 %	TNC female

LOW POWER 50 OHM TNC OPEN / SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
553-233-001	DC - 3 GHz	100 %	TNC male / TNC male

Complete specifications and outline drawings are available on our web site or consult the factory.



LOW POWER 50 OHM BNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
554-265-001	DC - 1 GHz	1.20:1	1 Watt	BNC male
554-026-001	DC - 3 GHz	1.20:1	1 Watt	BNC male
554-118-001	DC - 3 GHz	1.30:1	1 Watt	BNC male w/ beadchain
554-047-001	DC - 3 GHz	1.20:1	1 Watt	BNC female
554-302-002	DC - 2 GHz	1.20:1	2 Watts	BNC male
554-187-002	DC - 3 GHz	1.30:1	2 Watts	BNC male
554-274-002	DC - 3 GHz	1.30:1	2 Watts	BNC female
554-306-005	DC - 3 GHz	1.15:1 DC - 1 GHz 1.20:1 1 - 2 GHz 1.25:1 2 - 3 GHz	5 Watts	BNC male
554-280-030	DC - 2 GHz	1.35:1	30 Watts	BNC female
554-142-030	DC - 3 GHz	1.35:1	30 Watts	BNC male
554-144-030	DC - 3 GHz	1.35:1	30 Watts	BNC female
554-312-030	DC - 4 GHz	1.35:1	30 Watts	BNC male
554-314-030	DC - 4 GHz	1.35:1	30 Watts	BNC female

HIGH POWER 50 OHM BNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
554-142-050	DC - 3 GHz	1.35:1	50 Watts	BNC male
554-144-050	DC - 3 GHz	1.35:1	50 Watts	BNC female
554-142-100	DC - 3 GHz	1.35:1	100 Watts	BNC male
554-144-100	DC - 3 GHz	1.35:1	100 Watts	BNC female

LOW POWER 50 OHM BNC OPEN

Model	Frequency Range	Nominal Reflection	Connector Gender
554-257-001	DC - 1 GHz	100 %	BNC male
554-232-001	DC - 1 GHz	100%	BNC female

LOW POWER 50 OHM BNC SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
554-258-001	DC - 1 GHz	100 %	BNC male
554-259-001	DC - 1 GHz	100 %	BNC female

50 OHM BNC MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
554-320-151	DC - 2 GHz	1.5:1	2 Watts	BNC male w/ beadchain
554-297-171	DC - 2 GHz	1.6:1	2 Watts	BNC male w/ beadchain
554-321-201	DC - 2 GHz	2.0:1	2 Watts	BNC male w/ beadchain

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LOW POWER 50 OHM 7/16 TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
555-171-002	DC - 2 GHz	1.10:1	2 Watts	7/16 male
555-030-002	DC - 7.5 GHz	1.10:1 DC - 4 GHz 1.20:1 4 - 7.5 GHz	2 Watts	7/16 male
555-206-005	DC - 7.5 GHz	1.10:1 DC - 4 GHz 1.20:1 4 - 7.5 GHz	5 Watts	7/16 male
555-295-005	DC - 3 GHz	1.10:1	5 Watts	7/16 male
555-144-030	DC - 3 GHz	1.35:1	30 Watts	7/16 female

HIGH POWER 50 OHM 7/16 TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
555-311-050	DC - 1 GHz	1.30:1	50 Watts	7/16 male
555-142-050	DC - 3 GHz	1.35:1	50 Watts	7/16 male
555-144-050	DC - 3 GHz	1.35:1	50 Watts	7/16 female
555-115-050	DC - 4 GHz	1.35:1	50 Watts	7/16 male
555-142-100	DC - 3 GHz	1.35:1	100 Watts	7/16 male
555-144-100	DC - 3 GHz	1.35:1	100 Watts	7/16 female
555-169-150	DC - 3 GHz	1.40:1	150 Watts	7/16 male
555-144-150	DC - 3 GHz	1.35:1	150 Watts	7/16 female

LOW POWER 50 OHM 2.9 mm TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
557-060-001	DC - 40 GHz	1.20:1	1 Watt	2.9 mm male
557-059-001	DC - 40 GHz	1.20:1	1 Watt	2.9 mm female

LOW POWER 50 OHM SMB TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
558-162-001	DC - 4 GHz	1.20:1	1 Watt	SMB male
558-163-001	DC - 4 GHz	1.20:1	1 Watt	SMB female

LOW POWER 50 OHM 2.4 mm TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
559-186-001	DC - 50 GHz	1.15:1	0.5 Watts	2.4 mm male

50 OHM QN TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
559-247-020	DC - 2.5 GHz	1.20:1	20 Watts	QN female (bulkhead)
559-247-030	DC - 2.5 GHz	1.20:1	30 Watts	QN female (bulkhead)
559-318-030	DC - 4 GHz	1.25:1	30 Watts	QN female (bulkhead)

Complete specifications and outline drawings are available on our web site or consult the factory.



LOW POWER 75 OHM SMA TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
571-154-001	DC - 2 GHz	1.35:1	1 Watt	SMA male
571-260-001	DC - 3 GHz	1.35:1	1 Watt	SMA male

LOW POWER 75 OHM N TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
572-076-001	DC - 2 GHz	1.30:1	1 Watt	N male
572-077-001	DC - 2 GHz	1.25:1	1 Watt	N female

LOW POWER 75 OHM N SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
572-180-001	DC - 1 GHz	100 %	N male
572-215-001	DC - 1 GHz	100 %	N female

75 OHM N MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
572-292-015	DC - 500 MHz	1.5:1	2 Watts	N male
572-292-021	DC - 500 MHz	2.0:1	2 Watts	N male

LOW POWER 75 OHM TNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
573-126-001	DC - 1 GHz	1.25:1	1 Watt	TNC male
573-127-001	DC - 1 GHz	1.25:1	1 Watt	TNC male w/ beadchain
573-325-001	DC - 2 GHz	1.25:1	1 Watt	TNC male

LOW POWER 75 OHM BNC TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
574-264-001	DC - 2 GHz	1.30:1	1 Watt	BNC male
574-048-001	DC - 2 GHz	1.25:1	1 Watt	BNC female

LOW POWER 75 OHM BNC OPEN

Model	Frequency Range	Nominal Reflection	Connector Gender
574-237-001	DC - 1 GHz	100 %	BNC male
574-238-001	DC - 1 GHz	100 %	BNC female

LOW POWER 75 OHM BNC SHORT

Model	Frequency Range	Nominal Reflection	Connector Gender
574-184-001	DC - 1 GHz	100 %	BNC male
574-236-001	DC - 1 GHz	100 %	BNC female

LOW POWER 75 OHM F TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
579-082-001	DC - 2 GHz	1.30:1	1 Watt	F male
579-090-001	DC - 2 GHz	1.30:1	1 Watt	F female
579-267-002	DC - 3 GHz	1.40:1	2 Watts	F male

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LOW POWER 25 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
591-320-001	DC - 3 GHz	1.35:1	1 Watt	SMA male

LOW POWER 66.7 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
594-240-001	DC - 500 MHz	1.35:1	1 Watt	BNC male

LOW POWER 100 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
591-261-001	DC - 3 GHz	1.35:1	1 Watt	SMA male
594-137-002	DC - 2 GHz	1.50:1	2 Watts	BNC male

LOW POWER 200 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
593-244-001	DC - 2 GHz	1.35:1	1 Watt	TNC male
594-245-001	DC - 2 GHz	1.35:1	1 Watt	BNC male

LOW POWER 300 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
594-157-001	DC - 500 MHz	1.35:1	1 Watt	BNC male

LOW POWER 400 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
591-293-001	DC - 100 MHz	1.35:1	1 Watt	SMA female

LOW POWER 600 OHM TERMINATIONS

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
591-321-001	DC - 3 GHz	1.40:1	1 Watt	SMA male
594-213-001	DC - 100 MHz	1.30:1	1 Watt	BNC male

93 OHM MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
592-291-015	DC - 500 MHz	1.5:1	1 Watt	N male
592-291-021	DC - 500 MHz	2.0:1	1 Watt	N male

100 OHM MISMATCHES

Model	Frequency Range	VSWR Maximum	Input Power	Connector Gender
592-290-015	DC - 500 MHz	1.5:1	1 Watt	N male
592-290-021	DC - 500 MHz	2.0:1	1 Watt	N male

Complete specifications and outline drawings are available on our web site or consult the factory.



LOW POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-015-XXX*	DC - 1 GHz	1 - 40 dB in 1 dB increments	+/-0.3 dB, 1 - 20 dB +/-0.5 dB, 21 - 40 dB	1.20:1	1 Watt Average
351-024-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	1 Watt Average
351-129-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0dB, 21 - 40 dB	1.40:1	1 Watt Average
351-300-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.65 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.45:1	1 Watt Average
351-057-XXX*	DC - 3 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average
351-163-040-*	DC - 4 GHz	40 dB	+/- 1.5 dB nominal	1.50:1	1 Watt Average
351-261-XXX*	DC - 2 GHz	1 - 20 dB in 1 dB increments	+/- 0.5 dB	1.30:1	2 Watts Average
351-276-XXX*	DC - 2 GHz	40 - 80 dB in 1 dB increments	+/- 1.75 dB	1.40:1	2 Watts Average
351-037-XXX*	DC - 2.2 GHz	1 - 20 dB in 1 dB increments	+/- 0.5 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2 GHz	2 Watts Average
351-297-XXX*	DC - 2.5 GHz	1 - 20, 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 30 dB	1.35:1	2 Watts Average
351-288-XXX*	DC - 3 GHz	1, 3, 6, 10, 15 and 20 dB	+/- 0.3 dB, DC - 2.2 GHz +/- 0.5 dB, 2.2 - 3 GHz	1.30:1, DC - 2.2 GHz 1.40:1, 2.2 - 3 GHz	2 Watts Average
351-059-XXX*	DC - 4 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB	1.15:1	2 Watts Average
351-186-XXX*	DC - 6 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 20 dB	1.20:1	2 Watts Average
351-218-XXX*	DC - 18 GHz	1 - 20, 30 dB in 1 dB increments	+/-0.3 dB, 1 - 6 dB +/-0.5 dB, 7 - 20 dB +/-0.75 dB, 30 dB	1.15:1, DC - 4 GHz 1.25:1, 4 - 12.4 GHz 1.35:1, 12.4 - 18 GHz	2 Watts Average
351-052-XXX*	DC - 26.5 GHz	1 - 20, 30 and 40 dB	+/-0.8 dB, 1 - 20 dB +/-1.5 dB, 30 & 40 dB	1.35:1, DC - 18 GHz 1.50:1, 18 - 26.5 GHz	2 Watts Average
351-260-XXX*	DC - 6 GHz	1 - 12, 15, 20 and 30 dB	+/-0.5 dB, 1 - 12 dB +/-0.75 dB, 15 & 20 dB +/-1.0 dB, 30 dB	1.15:1, DC - 4 GHz 1.25:1, 4 - 6 GHz	5 Watts Average
351-259-XXX*	DC - 6 GHz	1 - 12, 15, 20 and 30 dB	+/-0.5 dB, 1 - 12 dB +/-0.75 dB, 15 & 20 dB +/-1.0 dB, 30 dB	1.15:1, DC - 4 GHz 1.25:1, 4 - 12.4 GHz 1.35:1, 12.4 - 18 GHz	5 Watts Average

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*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
Complete specifications and outline drawings are available on our web site or consult the factory.



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MALE TO MALE LOW POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-162-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	1 Watt Average
351-267-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.40:1	1 Watt Average

FEMALE TO FEMALE LOW POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-275-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.40:1	2 Watts Average

REVERSE POLARITY LOW POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-309-XXX*	DC - 2.5 GHz	1 - 40 in 1 dB increments & 50 dB	+/-0.5 dB, 1 - 20 dB +/-0.8 dB, 21 - 30 dB +/-1.0 dB, 40 and 50 dB	1.40:1	1 Watt Average
351-183-XXX*	DC - 3 GHz	1 - 40 in 1 dB increments & 50 dB	+/-0.5 dB, 1 - 20 dB +/-0.8 dB, 21 - 30 dB +/-1.0 dB, 40 and 50 dB	1.40:1	1 Watt Average

MEDIUM POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-234-XXX*	DC - 4 GHz	3, 6, 10, 20 and 30 dB	+/-0.5 dB, 3 & 6 dB +/-0.75 dB, 10 dB +/-1.0 dB, 20 dB +/- 1.25 dB, 30 dB	1.20:1	10 Watts Average
351-192-XXX*	DC - 6 GHz	3, 6, 10, 20 and 30 dB	+/-0.3 dB, 3 & 6 dB +/-0.5 dB, 10 dB +/-0.75 dB, 20 & 30 dB	1.20:1	10 Watts Average
351-241-XXX*	DC - 18 GHz	3, 6, 10, 20 and 30 dB	+/-0.75 dB, 3, 6 & 10 dB +/-1.0 dB, 20 dB +/-1.25 dB, 30 dB	1.20:1, DC - 4 GHz 1.30:1, 4 - 12.4 GHz 1.40:1, 12.4 - 18 GHz	10 Watts Average
351-178-XXX*	DC - 2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2 GHz	30 Watts Average
351-249-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	30 Watts Average
351-304-XXX*	DC - 4 GHz	3, 6 and 30 dB	+/-0.75 dB, 3 and 6 dB +/-1.0 dB, 30 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 4 GHz	30 Watts Average

HIGH POWER 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-278-XXX*	DC - 1 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1	50 Watts Average
351-248-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	50 Watts Average
351-255-XXX*	DC - 3 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.75 dB, 3, 6 & 10 dB +/-1.0 dB, 20 & 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
Complete specifications and outline drawings are available on our web site or consult the factory.



LOW POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-011-XXX*	DC - 1 GHz	1 - 20 dB and 30 dB	+/-0.3 dB, 1 - 10 dB +/-0.5 dB, 11 - 20 dB +/-1.0 dB, 30 dB	1.30:1, 1 - 20 dB 1.20:1, 30 dB	1 Watt Average
352-016-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	1 Watt Average
352-128-XXX*	DC - 2.4 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.40:1	1 Watt Average
352-129-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average
352-300-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.65 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.45:1	1 Watt Average
352-057-XXX*	DC - 3 GHz	1 - 40 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average
352-276-XXX*	DC - 3 GHz	40 - 80 dB in 1 dB increments	+/-1.75 dB, 40 - 80 dB	1.40:1	1 Watt Average
352-305-010	DC - 4 GHz	10 dB	+/-0.75 dB, 10 dB	1.30:1	1 Watt Average
352-118-XXX*	DC - 2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	2 Watts Average
352-126-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	2 Watts Average
352-214-XXX*	DC - 3 GHz	1 - 10, in 1 dB increments 20, 30 & 40 dB	+/-0.75 dB, DC - 2 GHz +/-0.1 dB, 2 - 3 GHz	1.40:1	2 Watts Average
352-035-XXX*	DC - 4 GHz	1 - 3, 6, 10, 16, 19, 20 & 30 dB	+/-0.3 dB, 1 - 19 dB +/-0.5 dB, 20 & 30 dB	1.20:1	2 Watts Average
352-103-XXX*	DC - 6 GHz	1 - 12 in 1 dB increments 15, 20, 30 & 40 dB	+/-0.5 dB, 1 - 12 dB +/-0.75 dB, 15, 20 & 30 dB +/-1.5 dB, 40 dB	1.35:1	2 Watts Average
352-125-XXX*	DC - 12.4 GHz	1 - 40 dB and 50 dB	+/-0.3 dB, 1 - 6 dB +/-0.5 dB, 7 - 20 dB +/-0.75 dB, 21 - 30 dB +/-1.5 dB, 31 - 40 & 50 dB	1.15:1, DC - 4 GHz 1.20:1, 4 - 8 GHz 1.25:1, 8 - 12.4 GHz	2 Watts Average
352-019-XXX*	DC - 18 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-0.3 dB, 1 - 6 dB +/-0.5 dB, 7 - 20 dB +/-0.75 dB, 21 - 30 & 40 dB	1.15:1, DC - 4 GHz 1.20:1, 4 - 8 GHz 1.25:1, 8 - 12.4 GHz 1.35:1, 12.4 - 18 GHz	2 Watts Average
352-230-XXX*	DC - 4 GHz	1 - 12, 15, 20 and 30 dB	+/-0.3 dB, 1 - 9 dB +/-0.5 dB, 10-12 & 15 dB +/-0.75 dB, 20 & 30 dB	1.15:1	5 Watts Average
352-232-XXX*	DC - 18 GHz	1 - 12, 15, 20 and 30 dB	+/-0.5 dB, 1 - 9 dB +/-0.75 dB, 10-12 & 15 dB +/-1.0 dB, 20 & 30 dB	1.15:1, DC - 4 GHz 1.25:1, 4 - 12.4 GHz 1.35:1, 12.4 - 18 GHz	5 Watts Average

LOW COST

FEMALE TO FEMALE LOW POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-210-XXX*	DC - 2.5 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.40:1	2 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
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MEDIUM POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-231-XXX*	DC - 4 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.5 dB, 3 & 6 dB +/-0.75 dB, 10 dB +/-1.0 dB, 20 dB +/-1.25 dB, 30 & 40 dB	1.20:1	10 Watts Average
352-233-XXX*	DC - 18 GHz	3, 6, 10, 20 and 30 dB	+/-0.5 dB, 3 & 6 dB +/-0.75 dB, 10 dB +/-1.0 dB, 20 dB +/-1.5 dB, 30 dB	1.20:1, DC - 4 GHz 1.30:1, 4 - 12.4 GHz 1.45:1, 12.4 - 18 GHz	10 Watts Average
352-178-XXX*	DC - 2 GHz	3, 6, 10, 20, 30 & 40 dB	+/-0.5 dB, 1, 6 & 10 dB +/-1.0 dB, 20, 30 & 40 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2 GHz	30 Watts Average
352-249-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	30 Watts Average
352-304-XXX*	DC - 4 GHz	3, 6 and 30 dB	+/-0.75 dB, 3 and 6 dB +/-1.0 dB, 30 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 4 GHz	30 Watts Average

FEMALE / FEMALE MEDIUM POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-287-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	30 Watts Average

HIGH POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-135-XXX*	DC - 2.2 GHz	1 - 30 dB in 1 dB increments	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2.2 GHz	50 Watts Average
352-248-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	50 Watts Average
352-094-XXX*	DC - 6 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.75 dB, 3 - 30 dB +/-1.0 dB, 40 dB	1.25:1	50 Watts Average
352-171-XXX*	DC - 12.4 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.75 dB, 3 & 6dB +/-1.0 dB, 10 & 20 dB +/-1.25 dB, 30 dB +/-1.5 dB, 40 dB	1.45:1	50 Watts Average
352-050-XXX*	DC - 18 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.75 dB, 3 & 6 dB +/-1.0 dB, 10 & 20 dB +/-1.25 dB, 30 dB +/-1.5 dB, 40 dB	1.45:1	50 Watts Average
352-295-XXX*	DC - 1 GHz	3, 6, 10, 20, 30 & 40 dB	+/-0.5 dB, 3, 6, 10 & 20 dB +/-1.0 dB, 30 & 40 dB	1.30:1	75 Watts Average
352-315-XXX*	DC - 2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.25:1	80 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
Complete specifications and outline drawings are available on our web site or consult the factory.



HIGH POWER 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-136-XXX*	DC - 2.2 GHz	1 - 30 and 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	100 Watts Average
352-270-XXX*	DC - 2.5GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.5 dB, 3, 6 & 10 dB +/-1.0 dB, 20 & 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.5 GHz	100 Watts Average
352-255-XXX*	DC - 3 GHz	3, 6, 10, 20, 30 and 40 dB	+/-0.75 dB, 3, 6 & 10 dB +/-1.0 dB, 20 & 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average
352-137-XXX*	DC - 2.2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2.2 GHz	150 Watts Average
352-017-XXX*	DC - 3 GHz	1, 2, 3, 6, 10, 20 and 30 dB	Consult the Factory	1.25:1	150 Watts Average
352-138-XXX*	DC - 2.2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2.2 GHz	200 Watts Average
352-177-XXX*	DC - 2.5 GHz	1 - 30 dB in 1 dB increments	+/-0.75 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.5 GHz	200 Watts Average
352-140-XXX*	DC - 2.2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2.2 GHz	300 Watts Average
352-023-XXX*	DC - 2.4 GHz	1, 3, 6, 10, 20, 30 and 40 dB	Consult the Factory	1.25:1	300 Watts Average
352-228-XXX*	DC - 3 GHz	1, 3, 6, 10, 20, 30 and 40 dB	Consult the Factory	1.30:1	300 Watts Average
352-047-XXX*	DC - 2.5 GHz	3, 6, 10, 20 and 30 dB	Consult the Factory	1.25:1	500 Watts Average
352-045-XXX*	DC - 2.4 GHz	3, 6, 10, 20, 30 and 40 dB	Consult the Factory	1.25:1	1,000 Watts Average

LOW POWER 50 OHM TNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
353-012-XXX*	DC - 1 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB	1.20:1	1 Watt Average
353-095-XXX*	DC - 2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	130:1, DC - 1 GHz 1.40:1, 1 - 2 GHz	1 Watt Average
353-022-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	1 Watt Average
353-129-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average
353-300-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.65 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.45:1	1 Watt Average
353-057-XXX*	DC - 3 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average
353-124-XXX*	DC - 2 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.30:1	2 Watts Average
353-214-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments 30 & 40 dB	+/-0.75 dB, DC - 2 GHz +/-1.0 dB, 2 - 3 GHz	1.40:1	2 Watts Average

LOW COST

REVERSE POLARITY LOW POWER 50 OHM TNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
353-280-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	1 Watt Average



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MEDIUM POWER 50 OHM TNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
353-249-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	30 Watts Average

HIGH POWER 50 OHM TNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
353-248-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	50 Watts Average
353-255-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average
353-272-XXX*	DC - 2 GHz	1, 2, 3, 4, 5, 10, 20, 30 & 40 dB	+/-0.5 dB, 1 - 5 & 10 dB +/-1.0 dB, 20 dB +/-1.5 dB, 30 & 40 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2 GHz	200 Watts Average
353-023-XXX*	DC - 2.4 GHz	1, 3, 6, 10, 20, 30 and 40 dB	Consult the Factory	1.25:1	300 Watts Average

LOW POWER 50 OHM BNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
354-012-XXX*	DC - 1 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.30:1	1 Watt Average
354-095-XXX*	DC - 2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 2 GHz	1 Watt Average
354-276-XXX*	DC - 2 GHz	40 - 80 dB in 1 dB increments	+/-1.75 dB	1.40:1	1 Watt Average
354-014-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	1 Watt Average
354-129-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 9 dB +/-0.75 dB, 10 - 29 dB +/-1.0 dB, 30 - 40 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 2.5 GHz	1 Watt Average
354-300-XXX*	DC - 2.5 GHz	1 - 40 dB in 1 dB increments	+/-0.65 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB +/-1.0 dB, 21 - 40 dB	1.45:1	1 Watt Average
354-283-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-0.75 dB, 11 - 20 dB	1.30:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	1 Watt Average
354-165-XXX*	DC - 1.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.35:1	2 Watts Average
354-118-XXX*	DC - 2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.40:1	2 Watts Average
354-264-XXX*	DC - 2.5 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB	1.40:1	2 Watts Average
354-009-XXX*	DC - 4 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.3 dB, DC - 3 GHz +/-0.4 dB, 3 - 4 GHz	1.10:1, DC - 1 GHz 1.20:1, 1 - 3 GHz 1.30:1, 3 - 4 GHz	5 Watts Average

LOW COST

MEDIUM POWER 50 OHM BNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
354-178-XXX*	DC - 2 GHz	3, 6, 10, 20 & 30 dB	+/-0.5 dB, 3, 6 & 10 dB +/-1.0 dB, 20 & 30 dB	1.20:1, DC - 1 GHz 1.35:1, 1 - 2 GHz	30 Watts Average
354-249-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	30 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
Complete specifications and outline drawings are available on our web site or consult the factory.



HIGH POWER 50 OHM BNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
354-248-XXX*	DC - 2.2 GHz	1 - 30 in 1 dB increments & 40 dB	+/-1.0 dB, 1 - 10 dB +/-1.5 dB, 11 - 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	50 Watts Average
354-289-XXX*	DC - 4 GHz	1 - 30 dB in 1 dB increments	+/-1.0 dB	1.35:1	50 Watts Average
354-136-XXX*	DC - 2.2 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	100 Watts Average
354-255-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average
354-240-XXX*	DC - 100 MHz	3, 6, 10, 20 & 30 dB	+/-0.5 dB		150 Watts Average

HIGH POWER 50 OHM 7/16 FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
355-136-XXX*	DC - 2.2 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 2.2 GHz	100 Watts Average
355-255-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11 - 30 dB +/-1.5 dB, 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average
355-045-XXX*	DC - 2.4 GHz	3, 6, 10, 20, 30 and 40 dB	Consult the Factory	1.25:1	1,000 Watts Average

LOW POWER 50 OHM 2.4 mm FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
357-021-XXX*	DC - 50 GHz	3, 6, 10 & 20 dB	Consult the Factory	Consult the Factory	0.5 Watts Average

LOW POWER 50 OHM 2.9 mm FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
357-021-XXX*	DC - 40 GHz	1, 2, 3, 4, 5, 6, 8, 10, 15 & 20 dB	Consult the Factory	Consult the Factory	0.5 Watts Average

50 OHM BETWEEN SERIES FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	Connector Configuration	Input Power
359-197-XXX*	DC - 1.5 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	BNC male / SMA female	1 Watt Average
359-286-XXX*	DC - 2.2 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB	BNC female / SMA male	1 Watt Average
359-284-XXX*	DC - 2.2 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB	BNC male / SMA female	1 Watt Average
359-169-XXX*	DC - 2.2 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 21 - 40 dB	N female / SMA male	1 Watt Average
359-320-XXX*	DC - 2.2 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB	N female / SMA male	2 Watts Average
359-235-XXX*	DC - 3 GHz	1 - 30 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 30 dB	SMA male / N female	1 Watt Average
359-135-XXX*	DC - 2.2 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 20 dB +/-1.0 dB, 21 - 30 dB	7/16 male / N female	50 Watts Average
359-240-XXX*	DC - 100 MHz	3, 6, 10, 20 & 30 dB	+/-0.5 dB	N male / BNC female	150 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
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LOW POWER 75 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
372-049-XXX*	DC - 1 GHz	1 - 30 dB in 1 dB increments	+/-0.3 dB, DC - 0.5 GHz +/-0.6 dB, 0.5 - 1 GHz	1.40:1	1 Watt Average
372-265-XXX*	DC - 2.5 GHz	1 - 30 dB in 1 dB increments	+/-0.5 dB, 1 - 10 dB +/-1.0 dB, 11-30 dB	1.35:1, DC - 1 GHz 1.50:1, 1 - 2.5 GHz	1 Watt Average
372-182-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB, DC - 1 GHz +/-0.75 dB, 1 - 2 GHz +/-1.0 dB, 2 - 3 GHz	1.35:1, DC - 1 GHz 1.50:1, 1 - 3 GHz	2 Watts Average

LOW POWER 75 OHM TNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
373-049-XXX*	DC - 1 GHz	1 - 20 dB in 1 dB increments	+/-0.3 dB, DC - 0.5 GHz +/-0.6 dB, 0.5 - 1 GHz	1.40:1	1 Watt Average

LOW POWER 75 OHM BNC FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
374-095-XXX*	DC - 0.5 GHz	1 - 20 dB in 1 dB increments	+/-0.3 dB, DC - 0.1 GHz +/-0.5 dB, 0.1 - 0.5 GHz	1.30:1	1 Watt Average
374-049-XXX*	DC - 1 GHz	1 - 20 dB in 1 dB increments	+/-0.75 dB	1.40:1	1 Watt Average
374-120-XXX*	DC - 2 GHz	1 - 40 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.50:1	1 Watt Average
374-306-XXX*	DC - 3 GHz	1 - 40 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.50:1	1 Watt Average
374-254-XXX*	DC - 1 GHz	1 - 20 dB in 1 dB increments	+/-0.75 dB	1.40:1	2 Watts Average
374-268-XXX*	DC - 3 GHz	1 - 40 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 40 dB	1.50:1	2 Watts Average

LOW POWER 75 OHM F FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
379-143-XXX*	DC - 1 GHz	1 - 20 dB in 1 dB increments	+/-0.5 dB	1.30:1	1 Watt Average
379-225-XXX*	DC - 2 GHz	1 - 20 in 1 dB increments & 30 dB	+/-0.5 dB, 1 - 20 dB +/-0.75 dB, 30 dB	1.50:1	1 Watt Average
379-256-XXX*	DC - 3 GHz	1 - 20 dB in 1 dB increments	+/-0.75 dB	1.50:1	1 Watt Average

DC PASSING LOW POWER 75 OHM F FIXED ATTENUATORS (2 OHM DC RESISTANCE)

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
379-281-XXX*	50 MHz - 2 GHz	1, 6, 9, 10, 12, 15 & 20 dB	+/-1.0dB	1.40:1	1 Watt Average

75 OHM BETWEEN SERIES FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	Connector Configuration	Input Power
379-293-XXX*	DC - 2 GHz	1 - 42 dB in 1 dB increments	+/-0.75 dB, 1 - 20 dB +/-1.0 dB, 21 - 42 dB	BNC male / F female	1 Watt Average

*Insert desired attenuation value (example: 3 dB = 003).

Male to Female connectors are the standard configuration, other configurations are available.
Complete specifications and outline drawings are available on our web site or consult the factory.



CONDUCTION COOLED 50 OHM SMA FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
351-251-XXX*	DC - 1 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 21-40 dB	1.35:1	10 Watts Average
351-250-XXX*	DC - 1 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 21-40 dB	1.35:1	100 Watts Average
351-273-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average

CONDUCTION COOLED 50 OHM N FIXED ATTENUATORS

Model	Frequency Range	Attenuation Values	Attenuation Accuracy	VSWR Maximum	Input Power
352-226-XXX*	DC - 1 GHz	1 - 40 dB in 1 dB increments	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 21-40 dB	1.35:1	25 Watts Average
352-262-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	50 Watts Average
352-282-030*	DC - 4 GHz	30 dB	+/-0.70 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	50 Watts Average
352-227-XXX*	DC - 1 GHz	1, 3, 5, 6, 10, 15, 20, 30 & 40 dB	+/-0.5 dB, 1, 3, 5, 6 & 10 dB +/-1.0 dB, 15 & 20 dB +/-1.5 dB, 30 & 40 dB	1.35:1	100 Watts Average
352-263-XXX*	DC - 2.5 GHz	1, 3, 5, 6, 10, 15, 20, 30 & 40 dB	+/-0.5 dB, 1, 3, 5, 6 & 10 dB +/-1.0 dB, 15 & 20 dB +/-1.5 dB, 30 & 40 dB	1.35:1, DC - 1 GHz 1.40:1, 1 - 2.5 GHz	100 Watts Average
352-273-XXX*	DC - 3 GHz	1 - 30 in 1 dB increments & 40 dB	+/-0.5 dB, 1-10 dB +/-1.0 dB, 11-20 dB +/-1.5 dB, 30 & 40 dB	1.20:1, DC - 1 GHz 1.40:1, 1 - 3 GHz	100 Watts Average

*Insert desired attenuation value (example: 3 dB = 003).

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50 OHM SMA POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
151-228-XXX*	DC - 1.0 GHz	2, 3, 4 and 5 way	N/A	1.30:1	10 Watts Average
151-170-XXX*	DC - 3.0 GHz	2 and 4 way	N/A	1.10:1	1 Watt Average
151-170-XXX*	DC - 3.0 GHz	3 and 5 way	N/A	1.30:1	1 Watt Average
151-196-XXX*	DC - 3.0 GHz	2, 3, 4 and 5 way	N/A	1.30:1	2 Watts Average
151-171-XXX*	DC - 4.0 GHz	2, 3 and 4 way	N/A	1.30:1	1 Watt Average
151-173-002	DC - 6.0 GHz	2 way	N/A	1.50:1	1 Watt Average
151-215-XXX*	DC - 6.0 GHz	2, 4, 6 and 8 way	N/A	1.50:1	1 Watt Average
151-270-XXX*	DC - 6.0 GHz	2, 4, 6 and 8 way	N/A	1.50:1	2 Watts Average
151-231-004	DC - 6.0 GHz	4 way	N/A	1.50:1	5 Watts Average
151-261-002	DC - 6.0 GHz	2 way	N/A	1.50:1	10 Watts Average
151-285-XXX*	DC - 6.0 GHz	2, 4, 6 and 8 way	N/A	1.50:1	10 Watts Average
151-271-XXX*	DC - 7.0 GHz	2 and 4 way	N/A	1.50:1	2 Watts Average
151-076-XXX*	1 - 500 MHz	2, 4 and 8 way	18 dB minimum	1.50:1	1 Watt Average
151-239-XXX*	10 - 1000 MHz	2, 4 and 8 way	18 dB minimum	1.50:1	1 Watt Average
151-058-003	20 - 500 MHz	3 way	18 dB minimum	1.50:1	1 Watt Average
151-058-XXX*	20 - 500 MHz	2, 4, 6 and 8 way	20 dB minimum	1.50:1	1 Watt Average
151-206-002	20 - 2500 MHz	2 way	17 dB minimum	1.90:1	0.5 Watts Average
151-169-002	50 - 700 MHz	2 way	16 dB minimum	1.40:1	1 Watt Average
151-185-002	100 - 500 MHz	2 way	20 dB minimum	1.30:1	1 Watt Average
151-166-002	200 - 2000 MHz	2 way	20 dB minimum	1.50:1	5 Watts Average
151-086-XXX*	300 - 1300 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-086-008	300 - 1300 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-061-XXX*	350 - 520 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	5 Watts Average
151-162-XXX*	400 - 450 MHz	2, 3, 6, 8 and 12 way	18 dB minimum	1.40:1	1 Watt Average
151-238-XXX*	400 - 500 MHz	2, 3, and 4 way	20 dB minimum	1.50:1	5 Watts Average
151-161-XXX*	400 - 700 MHz	2, 3, and 4 way	20 dB minimum	1.50:1	5 Watts Average
151-033-002	400 - 1000 MHz	2 way	20 dB minimum	1.40:1	5 Watts Average
151-205-XXX*	400 - 1200 MHz	2, 4 and 8 way	20 dB minimum	1.50:1	5 Watts Average
151-112-XXX*	400 - 2200 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-062-XXX*	400 - 2300 MHz	2, 4 and 8 way	20 dB minimum	1.50:1	5 Watts Average
151-236-002	400 - 6000 MHz	2 way	19 dB minimum	1.50:1	5 Watts Average
151-037-XXX*	500 - 1000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-037-008	500 - 1000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-040-XXX*	500 - 2000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-040-008	500 - 2000 MHz	3, 6 and 8 way	20 dB minimum	1.50:1	5 Watts Average
151-267-002	500 - 2000 MHz	2 way	20 dB minimum	1.25:1	30 Watts Average
151-267-004	500 - 2000 MHz	4 way	20 dB minimum	1.30:1	30 Watts Average
151-267-008	500 - 2000 MHz	8 way	20 dB minimum	1.50:1	30 Watts Average
151-045-XXX*	500 - 5000 MHz	2 and 4 way	15 dB minimum	1.50:1	5 Watts Average
151-258-XXX*	500 - 5000 MHz	2 and 4 way	15 dB minimum	1.50:1	10 Watts Average
151-202-XXX*	700 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-202-008	700 - 2500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-202-016	700 - 2500 MHz	16 way	20 dB minimum	1.60:1	5 Watts Average
151-265-XXX*	700 - 2700 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-278-XXX*	700 - 2700 MHz	2 and 4 way	20 dB minimum	1.40:1	20 Watts Average
151-268-XXX*	700 - 3500 MHz	2 and 4 way	20 dB minimum	1.50:1	5 Watts Average
151-136-XXX*	750 - 900 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-136-008	750 - 900 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average

*Inset desired configuration (example: 2 way = 002).

Complete specifications and outline drawings are available on our web site or consult the factory.



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Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
151-041-XXX*	800 - 1000 MHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-041-008	800 - 1000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-201-XXX*	800 - 2000 MHz	2, 4, 6, 8 and 16 way	18 dB minimum	1.50:1	10 Watts Average
151-014-XXX*	800 - 2200 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-014-XXX*	800 - 2200 MHz	3, 6, 8 and 16 way	20 dB minimum	1.50:1	5 Watts Average
151-214-016	800 - 2200 MHz	16 way	20 dB minimum	1.50:1	12 Watts Average
151-126-XXX*	800 - 2300 MHz	2 and 4 way	18 dB minimum	1.40:1	5 Watts Average
151-126-XXX*	800 - 2300 MHz	3 and 6 way	18 dB minimum	1.50:1	5 Watts Average
151-043-XXX*	800 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-043-008	800 - 2500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-043-016	800 - 2500 MHz	16 way	20 dB minimum	1.60:1	5 Watts Average
151-017-002	800 - 2500 MHz	2 way	20 dB minimum	1.40:1	20 Watts Average
151-096-XXX*	800 - 2500 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	10 Watts Average
151-130-002	800 - 2500 MHz	2 way	20 dB minimum	1.30:1	40 Watts Average
151-085-003	800 - 2200 MHz	3 way	20 dB minimum	1.50:1	5 Watts Average
151-085-XXX*	800 - 2700 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-218-002	800 - 3000 MHz	2 way	20 dB minimum	1.40:1	10 Watts Average
151-011-XXX*	800 - 3500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-011-008	800 - 3500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-054-XXX*	800 - 3500 MHz	2 and 4 way	20 dB minimum	1.40:1	10 Watts Average
151-054-008	800 - 3500 MHz	8 way	20 dB minimum	1.50:1	10 Watts Average
151-199-XXX*	800 - 6000 MHz	2 and 4 way	18 dB minimum	1.50:1	5 Watts Average
151-240-002	900 - 1000 MHz	2 way	30 dB minimum	1.30:1	20 Watts Average
151-077-002	900 - 1800 MHz	2 way	23 dB minimum	1.30:1	1 Watt Average
151-090-XXX*	950 - 1950 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-090-008	950 - 1950 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-113-002	1.35 - 5.5 GHz	2 way	20 dB minimum	1.40:1	5 Watts Average
151-038-XXX*	1.0 - 2.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-038-008	1.0 - 2.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-087-002	1.0 - 4.0 GHz	2 way	20 dB minimum	1.25:1	5 Watts Average
151-141-002	1.3 - 1.5 GHz	2 way	25 dB minimum	1.40:1	5 Watts Average
151-064-XXX*	1.5 - 3.0 GHz	2, 4, 8 and 16 way	20 dB minimum	1.40:1	5 Watts Average
151-114-002	1.5 - 4.0 GHz	2 way	20 dB minimum	1.30:1	5 Watts Average
151-042-XXX*	1.7 - 2.2 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-042-008	1.7 - 2.2 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-115-003	1.9 - 3.7 MHz	3 way	17 dB minimum	1.50:1	10 Watts Average
151-103-002	1.9 - 4.2 GHz	2 way	20 dB minimum	1.40:1	5 Watts Average
151-039-XXX*	2.0 - 4.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-039-008	2.0 - 4.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-035-002	2.0 - 4.0 GHz	2 way	20 dB minimum	1.25:1	30 Watts Average
151-035-004	2.0 - 4.0 GHz	4 way	18 dB minimum	1.40:1	30 Watts Average
151-035-008	2.0 - 4.0 GHz	8 Way	18 dB minimum	1.60:1	30 Watts Average
151-078-XXX*	2.0 - 5.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-078-008	2.0 - 5.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-266-XXX*	2.0 - 5.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-266-008	2.0 - 5.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-125-XXX*	2.0 - 6.0 GHz	2 and 4 way	17 dB minimum	1.40:1	5 Watts Average

*Inset desired configuration (example: 2 way = 002).

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Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
151-177-XXX*	2 - 18 GHz	2 and 4 way	16 dB minimum	1.60:1	20 Watts Average
151-177-008	2 - 18 GHz	8 way	16 dB minimum	2.00:1	20 Watts Average
151-234-XXX*	2.4 - 2.5 GHz	2 and 4 way	20 dB minimum	1.40:1	12 Watts Average
151-089-002	2.5 - 3.5 GHz	2 way	20 dB minimum	1.30:1	5 Watts Average
151-072-XXX*	3.4 - 4.2 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
151-072-008	3.4 - 4.2 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
151-208-002	4.0 - 5.0 GHz	2 way	20 dB minimum	1.25:1	10 Watts Average
151-016-002	4.5 - 5.0 GHz	2 way	25 dB minimum	1.30:1	2 Watts Average
151-135-XXX*	5.4 - 5.9 GHz	2 and 4 way	20 dB minimum	1.40:1	1 Watt Average
151-191-002	8.0 - 18 GHz	2 way	18 dB minimum	1.50:1	20 Watts Average
151-191-004	8.0 - 18 GHz	4 way	18 dB minimum	1.60:1	20 Watts Average

*Inset desired configuration (example: 2 way = 002).

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50 OHM N POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
152-101-XXX*	DC - 2.0 GHz	2 and 4 way	N/A	1.50:1	10 Watts Average
152-170-XXX*	DC - 3.0 GHz	2, 3, 4, 6 and 8 way	N/A	1.40:1	1 Watt Average
152-196-XXX*	DC - 3.0 GHz	2, 3 and 4 way	N/A	1.30:1	2 Watts Average
152-277-XXX*	DC - 3.0 GHz	2, 3 and 4 way	N/A	1.40:1	50 Watts Average
152-171-XXX*	DC - 4.0 GHz	2, 3 and 4 way	N/A	1.50:1	1 Watt Average
152-273-004	DC - 4.0 GHz	4 way	N/A	1.50:1	2 Watts Average
152-245-002	DC - 5.0 GHz	2 way	N/A	1.50:1	1 Watt Average
152-260-002	DC - 5.0 GHz	2 way	N/A	1.50:1	10 Watts Average
152-272-002	DC - 5.5 GHz	2 way	N/A	1.50:1	2 Watts Average
152-076-XXX*	1 - 500 MHz	2, 4, 8 and 16 way	18 dB minimum	1.50:1	1 Watt Average
152-255-002	10 - 3000 MHz	2 way	9 dB minimum	2.00:1	0.5 Watts Average
152-058-003	20 - 500 MHz	3 way	18 dB minimum	1.40:1	1 Watt Average
152-058-XXX*	20 - 500 MHz	2, 4, 6 and 8 way	20 dB minimum	1.40:1	1 Watt Average
152-118-XXX*	20 - 1000 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	1 Watt Average
152-143-002	50 - 200 MHz	2 way	18 dB minimum	1.30:1	1 Watt Average
152-086-XXX*	300 - 1300 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-086-008	300 - 1300 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-178-XXX*	400 - 500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-238-002	400 - 500 MHz	2 way	20 dB minimum	1.40:1	5 Watts Average
152-238-XXX*	400 - 500 MHz	3 and 4 way	20 dB minimum	1.50:1	5 Watts Average
152-221-002	400 - 2200 MHz	2 way	20 dB minimum	1.40:1	35 Watts Average
152-221-XXX*	400 - 2200 MHz	3 and 4 way	20 dB minimum	1.50:1	35 Watts Average
152-254-XXX*	400 - 4000 MHz	2 and 4 way	15 dB minimum	1.50:1	5 Watts Average
152-037-XXX*	500 - 1000MHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-037-008	500 - 1000MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-040-XXX*	500 - 2000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-040-008	500 - 2000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-211-XXX*	500 - 4000 MHz	2 and 4 way	15 dB minimum	1.50:1	5 Watts Average
152-045-XXX*	500 - 4500 MHz	2 and 4 way	15 dB minimum	1.50:1	5 Watts Average
152-149-002	700 - 2100 MHz	2 way	20 dB minimum	1.30:1	2 Watts Average
152-071-XXX*	700 - 2700 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-041-XXX*	800 - 1000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-041-008	800 - 1000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-019-XXX*	800 - 2000 MHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-014-XXX*	800 - 2200 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-014-008	800 - 2200 MHz	3, 6 and 8 way	20 dB minimum	1.50:1	5 Watts Average
152-043-XXX*	800 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-043-008	800 - 2500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-096-XXX*	800 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	10 Watts Average
152-017-002	800 - 2500 MHz	2 Way	20 dB minimum	1.40:1	20 Watts Average
152-085-002	800 - 2700 MHz	2 way	20 dB minimum	1.40:1	5 Watts Average
152-085-XXX*	800 - 2700 MHz	3 and 4 way	20 dB minimum	1.50:1	5 Watts Average
152-218-002	800 - 3000 MHz	2 way	20 dB minimum	1.40:1	10 Watts Average
152-011-XXX*	800 - 3500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-011-008	800 - 3500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-054-XXX*	800 - 3500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-054-008	800 - 3500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average

*Inset desired configuration (example: 2 way = 002).

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Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
152-038-XXX*	1.0 - 2.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-038-008	1.0 - 2.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-230-XXX*	1.0 - 4.0 GHz	2 and 4 way	15 dB minimum	1.50:1	10 Watts Average
152-042-XXX*	1.7 - 2.2 GHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-042-008	1.7 - 2.2 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-039-XXX*	2.0 - 4.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-039-008	2.0 - 4.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
152-243-002	2.0 - 4.0 GHz	2 way	20 dB minimum	1.30:1	10 Watts Average
152-243-004	2.0 - 4.0 GHz	4 way	20 dB minimum	1.40:1	10 Watts Average
152-229-XXX*	2.0 - 4.0 GHz	2 and 4 way	20 dB minimum	1.40:1	10 Watts Average
152-229-008	2.0 - 4.0 GHz	8 way	20 dB minimum	1.50:1	10 Watts Average
152-212-002	2.3 - 2.8 GHz	2 way	17 dB minimum	1.40:1	30 Watts Average
152-210-XXX*	3.7 - 4.8 GHz	2 and 4 way	18 dB minimum	1.40:1	5 Watts Average

WEATHER RESISTANT 50 OHM N POWER DIVIDERS IP65

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
152-279-XXX*	2.0 - 4.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
152-279-008	2.0 - 4.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average

50 OHM TNC POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
153-118-XXX*	20 - 1000 MHz	2, 3, 4, 6 and 8 way	20 dB minimum	1.40:1	1 Watt Average
153-195-002	225 - 400 MHz	2 way	20 dB minimum	1.40:1	10 Watts Average
153-037-XXX*	500 - 1000MHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-037-008	500 - 1000MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-040-XXX*	500 - 2000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-040-008	500 - 2000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-041-XXX*	800 - 1000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-041-008	800 - 1000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-014-XXX*	800 - 2200 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-014-XXX*	800 - 2200 MHz	3, 6 and 8 way	20 dB minimum	1.50:1	5 Watts Average
153-043-XXX*	800 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-043-008	800 - 2500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-038-XXX*	1.0 - 2.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-038-008	1.0 - 2.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-042-XXX*	1.7 - 2.2 GHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-042-008	1.7 - 2.2 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
153-039-XXX*	2.0 - 4.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
153-039-008	2.0 - 4.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average

*Insert desired configuration (example: 2 way = 002).

Complete specifications and outline drawings are available on our web site or consult the factory.



50 OHM BNC POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
154-120-XXX*	DC - 500 MHz	2 and 4 way	N/A	1.40:1	1 Watt Average
154-170-XXX*	DC - 3 GHz	2, 3 and 4 way	N/A	1.40:1	1 Watt Average
154-174-XXX*	1 - 300 MHz	2, 3, 4, 6 and 8 way	18 dB minimum	1.50:1	1 Watt Average
154-076-XXX*	1 - 500 MHz	2, 4 and 8 way	18 dB minimum	1.50:1	1 Watt Average
154-147-002	5 - 400 MHz	2 way	20 dB minimum	1.40:1	1 Watt Average
154-058-003	20 - 500 MHz	3 way	15 dB minimum	1.50:1	1 Watt Average
154-058-XXX*	20 - 500 MHz	2, 4 and 8 way	18 dB minimum	1.50:1	1 Watt Average
154-118-XXX*	20 - 1000 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	1 Watt Average
154-037-XXX*	500 - 1000MHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-037-008	500 - 1000MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
154-040-XXX*	500 - 2000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-040-008	500 - 2000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
154-041-XXX*	800 - 1000 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-041-008	800 - 1000 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
154-014-XXX*	800 - 2200 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	5 Watts Average
154-043-XXX*	800 - 2500 MHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-043-008	800 - 2500 MHz	8 way	20 dB minimum	1.50:1	5 Watts Average
154-038-XXX*	1.0 - 2.0 GHz	2 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-038-008	1.0 - 2.0 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average
154-042-XXX*	1.7 - 2.2 GHz	2, 3 and 4 way	20 dB minimum	1.40:1	5 Watts Average
154-042-008	1.7 - 2.2 GHz	8 way	20 dB minimum	1.50:1	5 Watts Average

75 OHM N POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
172-051-XXX*	DC - 1 GHz	2 and 4 way	N/A	1.40:1	1 Watt Average
172-115-002	1500 - 2500 MHz	2 way	18 dB minimum	1.50:1	5 Watts Average

75 OHM BNC POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
174-051-XXX*	DC - 1 GHz	2 and 4 way	N/A	1.40:1	1 Watt Average
174-164-XXX*	10 - 85 MHz	4 and 8 way	20 dB minimum	1.50:1	0.5 Watts Average
174-237-XXX*	10 - 800 MHz	2 and 4 way	15 dB minimum	1.40:1	0.5 Watts Average
174-213-002	20 - 500 MHz	2 way	22 dB minimum	1.50:1	1 Watt Average
174-259-003	20 - 1000 MHz	3 way	17 dB minimum	1.40:1	1 Watt Average
174-152-004	50 - 90 MHz	4 way	20 dB minimum	1.40:1	1 Watt Average
174-224-006	500 - 1500 MHz	6 way	16 dB minimum	1.40:1	5 Watts Average
174-224-008	500 - 1500 MHz	8 way	16 dB minimum	1.50:1	5 Watts Average
174-248-XXX*	950 - 1750 MHz	2, 4 and 8 way	20 dB minimum	1.40:1	5 Watts Average

*Inset desired configuration (example: 2 way = 002).

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75 OHM F POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
179-051-XXX*	DC - 1 GHz	2 and 4 way	N/A	1.40:1	1 Watt Average
179-110-XXX*	900 - 2100 MHz	2 and 4 way	20 dB minimum	1.40:1	2 Watts Average
179-110-008	900 - 2100 MHz	8 way	20 dB minimum	1.50:1	2 Watts Average
179-179-XXX*	900 - 2100 MHz	2 and 4 way	20 dB minimum	1.40:1	10 Watts Average
179-179-008	900 - 2100 MHz	8 way	20 dB minimum	1.50:1	10 Watts Average
179-242-XXX*	900 - 2100 MHz	2 and 4 way	20 dB minimum	1.40:1	10 Watts Average
179-242-008	900 - 2100 MHz	8 way	20 dB minimum	1.50:1	10 Watts Average
179-115-002	1.5 - 2.5 GHz	2 way	16 dB minimum	1.50:1	5 Watts Average

*Insert desired configuration (example: 2 way = 002).

Complete specifications and outline drawings are available on our web site or consult the factory.

DC BLOCKING* 50 OHM N POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
152-116-002	800 - 2200 MHz	2 way	20 dB minimum	1.40:1	5 Watts Average

*Unit passes DC signal through one path only; second path DC signal is blocked. DC voltage is 50 Vdc maximum.

DC BLOCKING** 50 OHM BNC POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
154-232-002	500 - 2400 MHz	2 way	20 dB minimum	1.40:1	5 Watts Average

**Unit passes DC signal through one path only; second path DC signal is blocked. DC voltage is 50 Vdc maximum.

PHASE TRACKING*** 50 OHM N POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
152-211-XXX*	500 - 4000 MHz	2 and 4 way	15 dB minimum	1.50:1	5 Watts Average
152-230-XXX*	1.0 - 4.0 GHz	2 and 4 way	15 dB minimum	1.40:1	10 Watts Average

***Phase tracking is +/-7° for the 2 way configuration and +/-10° for the 4 way configuration.

DC PASSING* 75 OHM F POWER DIVIDERS

Model	Frequency Range	Configurations	Isolation	VSWR Maximum	Input Power
179-264-004	950 - 1450 MHz	4 way	20 dB minimum	1.40:1	5 Watts Average

**Unit passes DC signal through output ports marked on the unit. DC current is 275 mA maximum.

*Insert desired configuration (example: 2 way = 002).

Complete specifications and outline drawings are available on our web site or consult the factory.



SMA SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-411-003	SMA male / SMA male	DC - 18 GHz	Straight
411-411-122	SMA male / SMA male	DC - 27 GHz	Straight
411-411-059	SMA male / SMA male	DC - 6 GHz	Right Angle
411-411-230	SMA male / SMA male	DC - 18 GHz	Right Angle Swept
411-411-263	SMA male / SMA male	DC - 26.5 GHz	Right Angle
412-412-002	SMA female / SMA female	DC - 18 GHz	Straight
412-412-246	SMA female / SMA female	DC - 18 GHz	Straight w/ 5/16 hex nut
412-412-113	SMA female / SMA female	DC - 27 GHz	Straight
412-412-076	SMA female / SMA female	DC - 18 GHz	Bulkhead
412-412-115	SMA female / SMA female	DC - 27 GHz	Bulkhead
412-412-271	SMA female / SMA female	DC - 18 GHz	4 Hole Flange
412-412-337	SMA female / SMA female	DC - 27 GHz	4 Hole Flange
412-412-288	SMA female / SMA female	DC - 18 GHz	Right Angle Swept
412-412-310	SMA female / SMA female	DC - 26.5 GHz	Right Angle
412-412-222	SMA female / SMA female / SMA female	DC - 6 GHz	Tee
412-412-328	SMA female reverse polarity / SMA female	DC - 1 GHz	Straight
412-412-223	SMA female rev. pol./ SMA female rev. pol.	DC - 1 GHz	Straight
412-412-353	SMA female rev. pol./ SMA female rev. pol.	DC - 6 GHz	Bulkhead
411-412-058	SMA male / SMA female	DC - 18 GHz	Straight
411-412-297	SMA male push on / SMA female	DC - 18 GHz	Straight
411-412-112	SMA male / SMA female	DC - 27 GHz	Straight
411-412-217	SMA male / SMA female	DC - 18 GHz	Bulkhead
411-412-343	SMA male / SMA female	DC - 18 GHz	2 Hole Flange
411-412-043	SMA male / SMA female	DC - 18 GHz	45 Degree Angle
411-412-077	SMA male / SMA female	DC - 6 GHz	Right Angle
411-412-338	SMA male / SMA female	DC - 12.4 GHz	Right Angle
411-412-124	SMA male / SMA female	DC - 26.5 GHz	Right Angle
411-412-078	SMA male / SMA female	DC - 18 GHz	Right Angle Swept
411-412-329	SMA male reverse polarity / SMA female	DC - 2.5 GHz	Straight
411-412-369	SMA male reverse polarity / SMA female	DC - 18 GHz	Straight
411-412-330	SMA male / SMA female reverse polarity	DC - 2.5 GHz	Straight

N SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-421-005	N male / N male	DC - 12.4 GHz	Straight
421-421-091	N male / N male	DC - 18 GHz	Straight
421-421-225	N male / N male	DC - 6 GHz	Right Angle
422-422-004	N female / N female	DC - 12.4 GHz	Straight
422-422-090	N female / N female	DC - 18 GHz	Straight
422-422-129	N female / N female	DC - 12 GHz	Bulkhead
422-422-203	N female / N female	DC - 18 GHz	Bulkhead
422-422-242	N female / N female	DC - 12.4 GHz	4 Hole Flange
422-422-294	N female / N female	DC - 18 GHz	4 Hole Flange
422-422-194	N female / N female	DC - 6 GHz	Right Angle
422-422-295	N female / N female / N female	DC - 4 GHz	Tee
422-422-154	N female N male / N female	DC - 4 GHz	Tee
421-422-227	N male / N female	DC - 1 GHz	Straight
421-422-272	N male push on / N female	DC - 3 GHz	Straight
421-422-057	N male / N female	DC - 12.4 GHz	Straight
421-422-096	N male / N female	DC - 18 GHz	Straight
421-422-240	N male / N female	DC - 18 GHz	4 Hole Flange
421-422-128	N male / N female	DC - 6 GHz	Right Angle
421-422-189	N male / N female	DC - 18 GHz	Right Angle Swept



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TNC SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
431-431-009	TNC male / TNC male	DC - 6 GHz	Straight
431-431-218	TNC male / TNC male	DC - 11 GHz	Straight
431-431-089	TNC male / TNC male	DC - 18 GHz	Straight
432-432-008	TNC female / TNC female	DC - 6 GHz	Straight
432-432-088	TNC female / TNC female	DC - 18 GHz	Straight
432-432-216	TNC female / TNC female	DC - 12.4 GHz	Bulkhead
432-432-228	TNC female / TNC female	DC - 12.4 GHz	Bulkhead (hermetic)
432-432-290	TNC female / TNC female	DC - 18 GHz	Bulkhead
432-432-291	TNC female / TNC female	DC - 18 GHz	4 Hole Flange
431-432-352	TNC male / TNC female	DC - 11 GHz	Straight
431-432-098	TNC male / TNC female	DC - 18 GHz	Straight
431-432-120	TNC male / TNC female	DC - 6 GHz	Right Angle

BNC SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
441-441-007	BNC male / BNC male	DC - 3 GHz	Straight
441-441-309	BNC male / BNC male	DC - 4 GHz	Straight
442-442-006	BNC female / BNC female	DC - 3 GHz	Straight
442-442-248	BNC female / BNC female	DC - 8 GHz	Straight
442-442-192	BNC female / BNC female	DC - 4 GHz	Bulkhead
442-442-241	BNC female / BNC female	DC - 3 GHz	4 Hole Flange
442-442-174	BNC female / BNC female / BNC female	DC - 4 GHz	Tee
441-442-104	BNC male / BNC female	DC - 3 GHz	Straight
441-442-193	BNC male / BNC female	DC - 1 GHz	Right Angle
441-442-174	BNC female / BNC male / BNC female	DC - 4 GHz	Tee

7/16 SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
451-451-056	7/16 male / 7/16 male	DC - 7.5 GHz	Straight
452-452-055	7/16 female / 7/16 female	DC - 7.5 GHz	Straight
452-452-319	7/16 female / 7/16 female	DC - 7.5 GHz	4 Hole Flange
451-452-257	7/16 male / 7/16 female	DC - 7.5 GHz	Straight

SC SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-491-259	SC male / SC male	DC - 11 GHz	Straight
492-492-260	SC female / SC female	DC - 11 GHz	Straight
491-492-358	SC male / SC female	DC - 11 GHz	Straight

2.92mm SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
471-471-036	2.92mm male / 2.92mm male	DC - 40 GHz	Straight
471-471-321	2.92mm male / 2.92mm male	DC - 40 GHz	Right Angle Swept
472-472-037	2.92mm female / 2.92mm female	DC - 40 GHz	Straight
472-472-252	2.92mm female / 2.92mm female	DC - 40 GHz	Bulkhead
472-472-268	2.92mm female / 2.92mm female	DC - 40 GHz	4 Hole Flange
472-472-342	2.92mm female / 2.92mm female	DC - 40 GHz	Right Angle Swept
471-472-038	2.92mm male / 2.92mm female	DC - 40 GHz	Straight
471-472-042	2.92mm male / 2.92mm female	DC - 40 GHz	Right Angle Swept



3.5mm SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-491-081	3.5mm male / 3.5mm male	DC - 34 GHz	Straight
491-491-119	3.5mm male / 3.5mm male	DC - 34 GHz	Right Angle
492-492-110	3.5mm female / 3.5mm female	DC - 34 GHz	Straight
492-492-276	3.5mm female / 3.5mm female	DC - 34 GHz	Bulkhead
492-492-289	3.5mm female / 3.5mm female	DC - 34 GHz	4 Hole Flange
491-492-080	3.5mm male / 3.5mm female	DC - 34 GHz	Straight
491-492-068	3.5mm male / 3.5mm female	DC - 34 GHz	Right Angle

2.4mm SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
461-461-029	2.4mm male / 2.4mm male	DC - 50 GHz	Straight
462-462-030	2.4mm female / 2.4mm female	DC - 50 GHz	Straight
462-462-267	2.4mm female / 2.4 mm female	DC - 50 GHz	Bulkhead
462-462-354	2.4mm female / 2.4 mm female	DC - 50 GHz	4 Hole Flange
461-462-031	2.4mm male / 2.4mm female	DC - 50 GHz	Straight
461-462-116	2.4mm male / 2.4mm female	DC - 50 GHz	Right Angle

1.85MM SAME SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-491-364	1.85mm male / 1.85mm male	DC - 65 GHz	Straight
492-492-365	1.85mm female / 1.85mm female	DC - 65 GHz	Straight
491-492-366	1.85mm male / 1.85mm female	DC - 65 GHz	Straight

F SAME SERIES 75 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
492-492-335	F female / F female	DC - 1 GHz	Straight



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SMA / N BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-421-015	SMA male / N male	DC - 12.4 GHz	Straight
411-421-095	SMA male / N male	DC - 18 GHz	Straight
412-422-010	SMA female / N female	DC - 12.4 GHz	Straight
412-422-097	SMA female / N female	DC - 18 GHz	Straight
412-422-133	SMA female / N female	DC - 12.4 GHz	Bulkhead
412-422-134	SMA female / N female	DC - 18 GHz	Bulkhead (nut on SMA side)
412-422-071	SMA female / N female	DC - 18 GHz	Bulkhead (nut on N side)
412-422-299	SMA female / N female	DC - 8 GHz	4 Hole Flange
412-422-074	SMA female / N female	DC - 12 GHz	4 Hole Flange
412-422-191	SMA female / N female	DC - 18 GHz	4 Hole Flange
411-422-016	SMA male / N female	DC - 12.4 GHz	Straight
411-422-094	SMA male / N female	DC - 18 GHz	Straight
411-422-184	SMA male / N female	DC - 18 GHz	4 Hole Flange
411-422-087	SMA male / N female	DC - 12 GHz	Right Angle
412-421-001	SMA female / N male	DC - 12.4 GHz	Straight
412-421-093	SMA female / N male	DC - 18 GHz	Straight
412-421-239	SMA female / N male	DC - 12 GHz	4 Hole Flange
412-421-332	SMA female / N male push on	DC - 18 GHz	Straight
422-411-373	N female / SMA male reverse polarity	DC - 11 GHz	Straight
422-411-371	N female / SMA male reverse polarity	DC - 18 GHz	Straight

SMA / TNC BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-431-020	SMA male / TNC male	DC - 6 GHz	Straight
411-431-060	SMA male / TNC male	DC - 12 GHz	Straight
411-431-039	SMA male / TNC male	DC - 18 GHz	Straight
412-432-013	SMA female / TNC female	DC - 6 GHz	Straight
412-432-039	SMA female / TNC female	DC - 12 GHz	Straight
412-432-082	SMA female / TNC female	DC - 18 GHz	Straight
412-432-349	SMA female / TNC female	DC - 11 GHz	Bulkhead (nut on SMA side)
412-432-361	SMA female / TNC female	DC - 11 GHz	Bulkhead (nut on TNC side)
412-432-153	SMA female / TNC female	DC - 18 GHz	Bulkhead (nut on SMA side)
412-432-350	SMA female / TNC female	DC - 18 GHz	Bulkhead (nut on TNC side)
411-432-019	SMA male / TNC female	DC - 6 GHz	Straight
411-432-062	SMA male / TNC female	DC - 12 GHz	Straight
411-432-039	SMA male / TNC female	DC - 18 GHz	Straight
411-432-231	SMA male / TNC female	DC - 3 GHz	Straight (Reverse Polarity)
412-431-367	SMA female / TNC male push on	DC - 5 GHz	Straight
412-431-014	SMA female / TNC male	DC - 11 GHz	Straight
412-431-061	SMA female / TNC male	DC - 12 GHz	Straight
412-431-083	SMA female / TNC male	DC - 18 GHz	Straight
412-431-232	SMA female / TNC male	DC - 3 GHz	Straight (Reverse Polarity)
412-431-346	SMA female / TNC male Left Hand Thread	DC - 18 GHz	Straight



SMA / BNC BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-441-018	SMA male / BNC male	DC - 3 GHz	Straight
411-441-211	SMA male / BNC male	DC - 8 GHz	Straight
412-442-011	SMA female / BNC female	DC - 3 GHz	Straight
412-442-213	SMA female / BNC female	DC - 8 GHz	Straight
412-442-135	SMA female / BNC female	DC - 4 GHz	Bulkhead
412-442-244	SMA female / BNC female	DC - 4 GHz	4 Hole Flange
411-442-017	SMA male / BNC female	DC - 3 GHz	Straight
411-442-212	SMA male / BNC female	DC - 8 GHz	Straight
412-441-012	SMA female / BNC male	DC - 3GHz	Straight
412-441-201	SMA female / BNC male	DC - 8GHz	Straight

SMA / MCX BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
412-492-180	SMA female / MCX female	DC - 6 GHz	Straight
411-492-180	SMA male / MCX female	DC - 6 GHz	Straight
412-491-180	SMA female / MCX male	DC - 6 GHz	Straight

SMA / MMCX BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
412-492-182	SMA female / MMCX female	DC - 6 GHz	Straight
411-492-182	SMA male / MMCX female	DC - 6 GHz	Straight
412-491-182	SMA female / MMCX male	DC - 6 GHz	Straight

SMA / SMB BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-491-187	SMA male / SMB male	DC - 3 GHz	Straight
412-492-086	SMA female / SMB female	DC - 3 GHz	Straight
411-491-229	SMA male / SMB female	DC - 3 GHz	Straight
412-491-315	SMA female / SMB-FAKRA male	DC - 4 GHz	Straight

SMA / SMC BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-491-108	SMA male / SMC male	DC - 3 GHz	Straight
412-492-109	SMA female / SMC female	DC - 3 GHz	Straight
411-491-053	SMA female / SMC male	DC - 3 GHz	Straight

SMA / SMP* BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
412-472-170	SMA female / SMP female	DC - 18 GHz	Straight
412-472-171	SMA female / SMP female	DC - 27 GHz	Straight
411-472-195	SMA male / SMP female	DC - 26.5 GHz	Straight
412-471-327	SMA female / SMP male	DC - 26.5 GHz	Straight
412-471-347	SMA female / SMP male	DC - 26.5 GHz	4 Hole Flange

*SMP is compatible with most GPO™ connectors. GPO is a trademark of Gilbert Engineering.



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SMA / SSMB BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
412-492-249	SMA male / SSMB female	DC - 12 GHz	Straight
412-491-356	SMA female / SSMB male	DC - 12 GHz	Straight

SMA / 2.4mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-461-141	SMA male / 2.4mm male	DC - 27 GHz	Straight
412-462-331	SMA female / 2.4mm female	DC - 27 GHz	Straight
411-462-092	SMA male / 2.4mm female	DC - 27 GHz	Straight
412-461-150	SMA female / 2.4mm male	DC - 27 GHz	Straight

SMA / 2.92mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-471-178	SMA male / 2.92mm male	DC - 27 GHz	Straight
412-472-237	SMA female / 2.92mm female	DC - 27 GHz	Straight
411-472-270	SMA male / 2.92mm female	DC - 27 GHz	Straight
412-471-179	SMA female / 2.92mm male	DC - 27 GHz	Straight

SMA / 3.5mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-411-145	3.5mm male / SMA male	DC - 27 GHz	Straight
492-412-121	3.5mm female / SMA female	DC - 27 GHz	Straight
491-412-069	3.5mm male / SMA female	DC - 27 GHz	Straight
492-411-144	3.5mm female / SMA male	DC - 27 GHz	Straight

SMA / 7mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-491-131	SMA male / 7mm	DC - 18 GHz	Straight
412-491-072	SMA female / 7mm	DC - 18 GHz	Straight

SMA / 1.0/2.3 BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
411-491-314	SMA male / 1.0/2.3 male	DC - 10 GHz	Straight
412-492-172	SMA female / 1.0/2.3 female	DC - 10 GHz	Straight
411-492-313	SMA male / 1.0/2.3 female	DC - 10 GHz	Straight
412-491-173	SMA female / 1.0/2.3 male	DC - 10 GHz	Straight

TNC / N BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
431-421-028	TNC male / N male	DC - 6 GHz	Straight
431-421-100	TNC male / N male	DC - 18 GHz	Straight
432-422-025	TNC female / N female	DC - 6 GHz	Straight
432-422-084	TNC female / N female	DC - 18 GHz	Straight
432-422-292	TNC female / N female	DC - 18 GHz	4 Hole Flange
431-422-027	TNC male / N female	DC - 6 GHz	Straight
431-422-099	TNC male / N female	DC - 18 GHz	Straight
431-422-348	TNC male / N female	DC - 6 GHz	Right Angle
432-421-026	TNC female / N male	DC - 6 GHz	Straight
432-421-085	TNC female / N male	DC - 18 GHz	Straight
422-432-372	N female / TNC female reverse polarity	DC - 18 GHz	Straight



BNC / N BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
441-421-024	BNC male / N male	DC - 8 GHz	Straight
442-422-021	BNC female / N female	DC - 8 GHz	Straight
442-422-351	BNC female / N female	DC - 4 GHz	Bulkhead
442-422-245	BNC female / N female	DC - 4 GHz	4 Hole Flange
441-422-023	BNC male / N female	DC - 4 GHz	Straight
441-422-209	BNC male / N female	DC - 8 GHz	Straight
442-421-022	BNC female / N male	DC - 4 GHz	Straight
442-421-210	BNC female / N male	DC - 8 GHz	Straight
421-442-334	N male push on / BNC female	DC - 6 GHz	Straight

N / HN BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-491-236	N male / HN male	DC - 3 GHz	Straight
422-492-235	N female / HN female	DC - 3 GHz	Straight
421-492-234	N male / HN female	DC - 3 GHz	Straight
422-491-233	N female / HN male	DC - 3 GHz	Straight

N / SC BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-491-359	N male / SC male	DC - 11 GHz	Straight
422-492-360	N female / SC female	DC - 11 GHz	Straight
421-492-304	N male / SC female	DC - 11 GHz	Straight
422-491-261	N female / SC male	DC - 11 GHz	Straight

N / 2.4mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-461-149	N male / 2.4mm male	DC - 18 GHz	Straight
422-462-207	N female / 2.4mm female	DC - 18 GHz	Straight
421-462-049	N male / 2.4mm female	DC - 18 GHz	Straight
422-461-147	N female / 2.4mm male	DC - 18 GHz	Straight

N / 2.9mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-471-250	N male / 2.9mm male	DC - 18 GHz	Straight
422-472-238	N female / 2.9mm female	DC - 18 GHz	Straight
421-472-047	N male / 2.9mm female	DC - 18 GHz	Straight
422-47-251	N female / 2.9mm male	DC - 18 GHz	Straight

N / 2.9mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-491-048	N male / 3.5mm male	DC - 18 GHz	Straight
422-492-048	N female / 3.5mm female	DC - 18 GHz	Straight
421-492-048	N male / 3.5mm female	DC - 18 GHz	Straight
422-491-206	N female / 3.5mm male	DC - 18 GHz	Straight

N / 7mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-491-215	N male / 7mm	DC - 18 GHz	Straight
422-491-140	N female / 7mm	DC - 18 GHz	Straight



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N / 7/16 BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
421-451-063	N male / 7/16 male	DC - 7.5 GHz	Straight
422-452-065	N female / 7/16 female	DC - 7.5 GHz	Straight
421-452-064	N male / 7/16 female	DC - 7.5 GHz	Straight
451-422-054	7/16 male / N female	DC - 7.5 GHz	Straight

N / QN BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
422-492-368	N female / QN female	DC - 6 GHz	Bulkhead

BNC / TNC BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
441-431-311	BNC male / TNC male	DC - 8 GHz	Straight
442-432-183	BNC female / TNC female	DC - 8 GHz	Straight
442-432-355	BNC female / TNC female	DC - 8 GHz	Bulkhead
441-432-197	BNC male / TNC female	DC - 4 GHz	Straight
441-432-312	BNC male / TNC female	DC - 8 GHz	Straight
442-431-196	BNC female / TNC male	DC - 4 GHz	Straight
431-442-333	TNC male push on / BNC female	DC - 5 GHz	Straight

2.4mm / 1.85mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
461-491-362	2.4mm male / 1.85mm male	DC - 50 GHz	Straight
462-492-298	2.4mm female / 1.85mm female	DC - 50 GHz	Straight
461-492-117	2.4mm male / 1.85mm female	DC - 50 GHz	Straight
462-491-118	2.4mm female / 1.85mm male	DC - 50 GHz	Straight

2.4mm / 3.5mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
461-491-102	2.4mm male / 3.5mm male	DC - 34 GHz	Straight
462-492-103	2.4mm female / 3.5mm female	DC - 34 GHz	Straight
461-492-050	2.4mm male / 3.5mm female	DC - 34 GHz	Straight
462-491-051	2.4mm female / 3.5mm male	DC - 34 GHz	Straight

2.4mm / 2.92mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
461-471-035	2.4mm male / 2.92mm male	DC - 40 GHz	Straight
462-472-032	2.4mm female / 2.92mm female	DC - 40 GHz	Straight
461-472-034	2.4mm male / 2.92mm female	DC - 40 GHz	Straight
462-471-033	2.4mm female / 2.92mm male	DC - 40 GHz	Straight

2.92mm / 1.85mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
461-491-363	2.92mm male / 1.85mm male	DC - 40 GHz	Straight
462-492-357	2.92mm female / 1.85mm female	DC - 40 GHz	Straight
461-492-188	2.92mm male / 1.85mm female	DC - 40 GHz	Straight
462-491-224	2.92mm female / 1.85mm male	DC - 40 GHz	Straight



2.92mm / 3.5mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
471-491-302	2.92mm male / 3.5mm male	DC - 34 GHz	Straight
472-492-300	2.92mm female / 3.5mm female	DC - 34 GHz	Straight
471-492-177	2.92mm male / 3.5mm female	DC - 34 GHz	Straight
472-491-301	2.92mm female / 3.5mm male	DC - 34 GHz	Straight

7mm / 2.92mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-471-199	7mm / 2.92mm male	DC - 18 GHz	Straight

3.5mm / 7mm BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
491-491-142	3.5mm male / 7mm	DC - 18 GHz	Straight
492-491-143	3.5mm female / 7mm	DC - 18 GHz	Straight

7/16 / QC CONTACT BETWEEN SERIES 50 OHM ADAPTERS

Model	Configuration	Frequency Range	Style
452-492-320	7/16 female / QC contact	DC - 8 GHz	4 Hole Flange



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50 OHM SMA MANUAL VARIABLE ATTENUATORS

Model	Frequency Range	Attenuation Range / Steps	Attenuation Accuracy	VSWR Maximum	Insertion Loss
751-021-030	DC - 2.0 GHz	0 - 30 dB in 1 dB steps	+/-0.5 dB	1.40:1	0.7 dB
751-002-030	DC - 3.0 GHz	0 - 30 dB in 1 dB steps	+/-0.5 dB	1.70:1	1.0 dB
751-021-070	DC - 2.2 GHz	0 - 70 dB in 10 dB steps	+/-0.5 dB	1.50:1	0.6 dB
751-004-070	DC - 2.5 GHz	0 - 70 dB in 10 dB steps	+/-0.5 dB	1.50:1	0.6 dB
751-018-100	DC - 1.0 GHz	0 - 100 dB in 10 dB steps	+/-0.5 dB	1.20:1	0.3 dB
751-001-110	DC - 2.3 GHz	0 - 110 dB in 1 dB steps	+/-0.5 dB	1.50:1	1.0 dB

50 OHM N MANUAL VARIABLE ATTENUATORS

Model	Frequency Range	Attenuation Range / Steps	Attenuation Accuracy	VSWR Maximum	Insertion Loss
752-002-030	DC - 3.0 GHz	0 - 30 dB in 1 dB steps	+/-0.5 dB	1.70:1	1.0 dB
752-006-050	DC - 2.5 GHz	0 - 50 dB in 1 dB steps	+/-0.5 dB	1.50:1	1.0 dB
752-004-070	DC - 2.5 GHz	0 - 70 dB in 10 dB steps	+/-0.5 dB	1.50:1	0.6 dB
752-001-110	DC - 2.3 GHz	0 - 110 dB in 1 dB steps	+/-0.5 dB	1.50:1	1.0 dB

50 OHM SMA PROGRAMMABLE ATTENUATORS

Model	Frequency Range	Attenuation Range / Steps	Attenuation Accuracy	VSWR Maximum	Insertion Loss
651-030-006	DC - 1.0 GHz	0 - 6 dB (single step)	+/-0.4 dB	1.30:1	0.6 dB at 1 GHz
651-049-031	DC - 100 MHz	0 - 33 dB in 0.5 dB steps	+/-0.5 dB	1.35:1	0.8 dB at 100 MHz
651-026-063	DC - 1.0 GHz	0 - 63 dB in 1 dB steps	+/-0.4 dB	1.30:1	2.5 dB at 1.0 GHz
651-029-063	DC - 1.0 GHz	0 - 63 dB in 1 dB steps	+/-0.4 dB	1.30:1	2.5 dB at 1.0 GHz
651-031-031	DC - 2.2 GHz	0 - 31 dB in 1 dB steps	+/-0.5 dB	1.40:1	3.0 dB at 2.2 GHz
651-031-063	DC - 2.2 GHz	0 - 63 dB in 1 dB steps	+/-0.5 dB	1.40:1	3.5 dB at 2.2 GHz
651-031-127	DC - 2.2 GHz	0 - 127 dB in 1 dB steps	+/-0.5 dB	1.50:1	4.5 dB at 2.2 GHz
651-018-031	20 - 500 MHz	0 - 31 dB in 1 dB steps	+/-0.5 dB	1.50:1	3.0 dB at 500 MHz
651-018-063	20 - 500 MHz	0 - 63 dB in 1 dB steps	+/-0.5 dB	1.50:1	3.0 dB at 500 MHz
651-036-031	60 - 1350 MHz	0 - 31 dB in 1 dB steps	+/-0.4 dB	1.50:1	3.0 dB at 1350 MHz
651-025-031	0.5 - 2.5 GHz	0 - 31 dB in 1 dB steps	+/-0.5 dB	1.50:1	5.0 dB at 2.5 GHz
651-025-063	0.5 - 2.5 GHz	0 - 63 dB in 1 dB steps	+/-0.5 dB	1.50:1	6.0 dB at 2.5 GHz
651-017-031	0.8 - 2.2 GHz	0 - 31 dB in 1 dB steps	+/-0.6 dB	1.50:1	3.5 dB at 2.2 GHz
651-017-063	0.8 - 2.2 GHz	0 - 63 dB in 1 dB steps	+/-0.5 dB	1.50:1	3.5 dB at 2.2 GHz
651-052-115	1.2 - 1.4 GHz	0 - 11.5 dB in 0.5 dB steps	+/-0.4 dB	1.35:1	3.0 dB at 1.4 GHz

75 OHM BNC PROGRAMMABLE ATTENUATORS

Model	Frequency Range	Attenuation Range / Steps	Attenuation Accuracy	VSWR Maximum	Insertion Loss
674-023-031	DC - 1.0 GHz	0 - 31 dB in 1 dB steps	+/-0.5 dB	1.50:1	1.5 dB at 1.0 GHz
674-023-063	DC - 1.0 GHz	0 - 63 dB in 1 dB steps	+/-0.5 dB	1.50:1	2.0 dB at 1.0 GHz
674-023-127	DC - 1.0 GHz	0 - 127 dB in 1 dB steps	+/-0.5 dB	1.50:1	3.0 dB at 1.0 GHz

Complete specifications and outline drawings are available on our web site or consult the factory.

