

# Test Accessories

Bias-T's

DC Blocks

Detectors

Impedance Matching Pads



Impedance Matching Transformers

RF Fuse Holders

Feedthru Terminations

# Test Accessories

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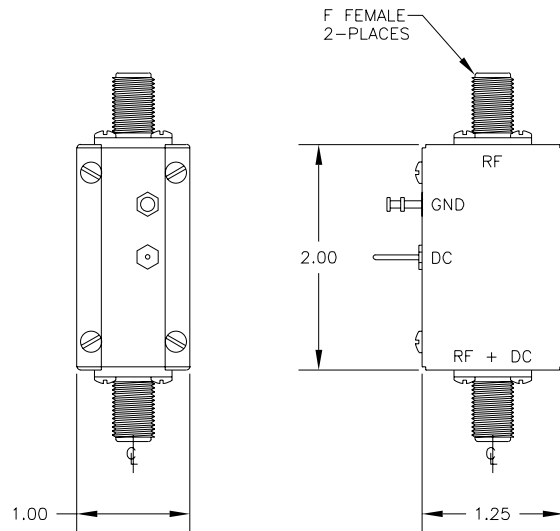
# Bias Taps

Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Insertion Loss	RF Connectors	DC Voltage	DC Current
50BT-014	50 Ohms	800-2500 MHz	1.2:1	2 Watts average	.3 dB max.	N, BNC or TNC female	150 Volts	5 Amps
50BT-017	50 Ohms	100-1750 MHz	1.4:1 100-300 MHz 1.3:1 300-1750 MHz	2 Watts average	1.25 dB max.	N, BNC or TNC female	200 Volts	2 Amps
50BT-029	50 Ohms	250-3000 MHz	1.5:1 250-500 MHz 1.3:1 500-3000 MHz	1 Watt average	0.5 dB max.	N, BNC or SMA male or female	100 Volts	1 Amp
75BT-007	75 Ohms	100-1750 MHz	1.4:1 100-300 MHz 1.3:1 300-1750 MHz	2 Watts average	1.25 dB max.	F female or BNC female	200 Volts	2 Amps

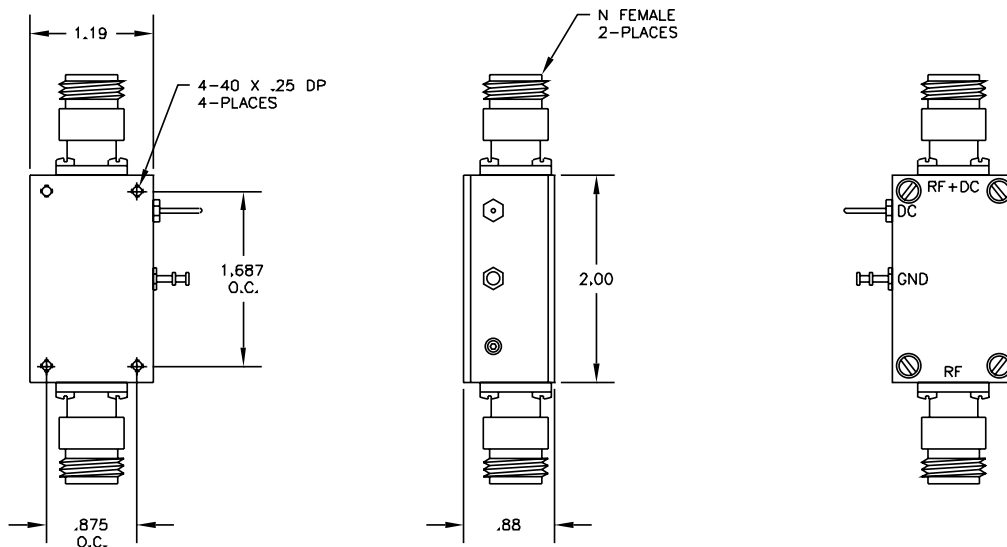
## Common Specifications

<b>Operating Temperature</b>
-55° C to +85° C

50BT-029 / 75BT-007



50BT-014 / 50BT-017



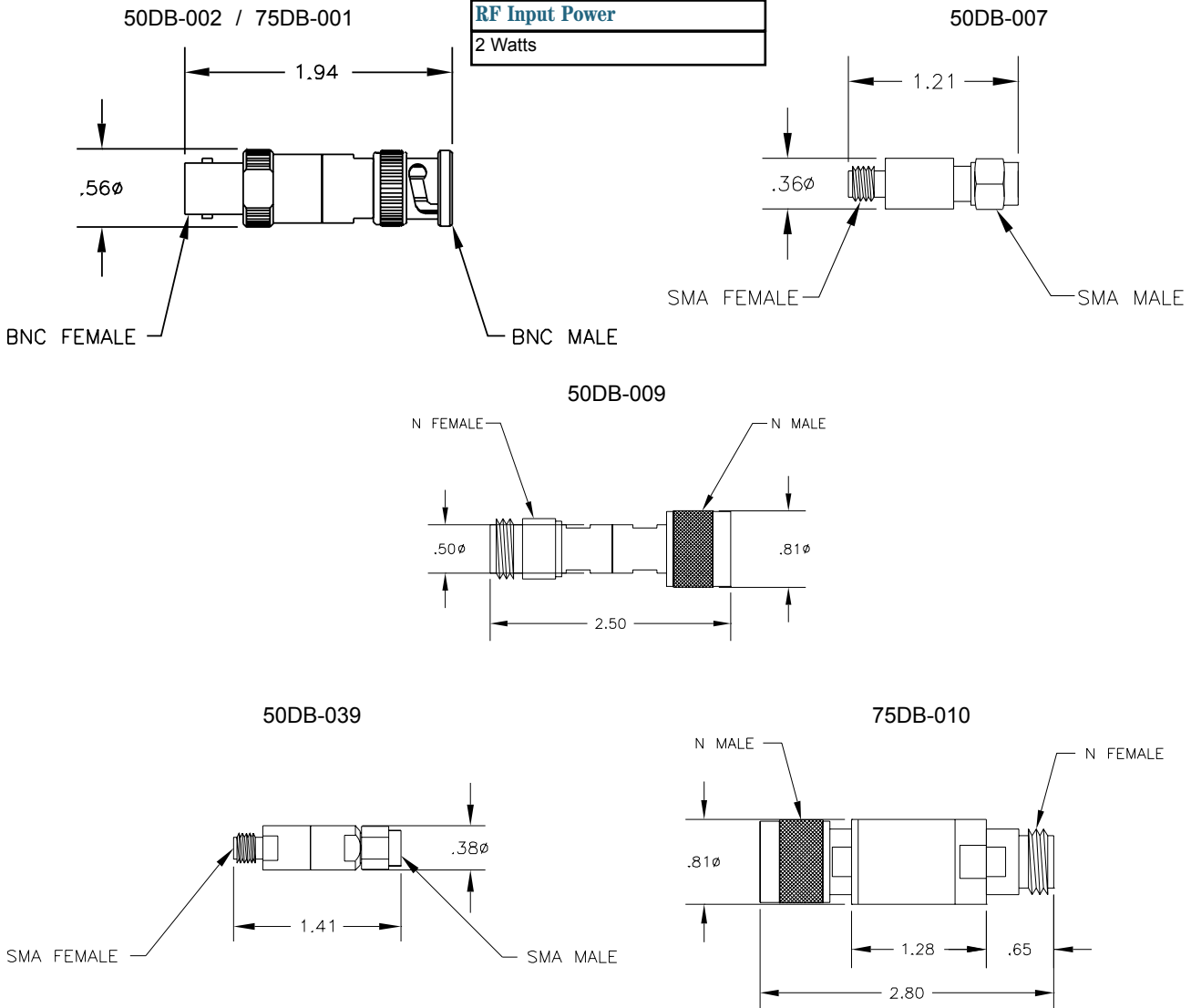
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# DC Blocks

Model	Frequency Range	Impedance	Insertion Loss	VSWR	Breakdown Voltage	RF Connector
50DB-002	50 KHz-1800 MHz	50 Ohms	0.5 dB maximum	1.3:1 maximum	100 Volts	BNC, TNC or N
50DB-007	10 MHz-18 GHz	50 Ohms	0.5 dB maximum	1.35:1 maximum	200 Volts	SMA
50DB-009	10-4000 MHz	50 Ohms	0.3 dB maximum	1.3:1 maximum	50 Volts	BNC, N
50DB-039	200 KHz-2000 MHz	50 Ohms	0.4 dB maximum	1.2:1 maximum	50 Volts	SMA
75DB-001	1-2500 MHz	75 Ohms	0.2 dB maximum 1-1000 MHz 0.3 dB maximum 1000-2500 MHz	1.1:1 1-500 MHz 1.25:1 maximum 500-1000 MHz 1.35:1 maximum 1000-2000 MHz 1.4:1 maximum 2000-2500 MHz	100 Volts	BNC, N or TNC
75DB-010	100 KHz-4000 MHz	75 Ohms	0.5 dB maximum 100 KHz-2000 MHz 0.7 dB maximum 2000-4000 MHz	1.3:1 maximum 100 KHz-2000 MHz 1.4:1 maximum 2000-4000 MHz	50 Volts	N

## Common Specifications

<b>RF Input Power</b>
2 Watts



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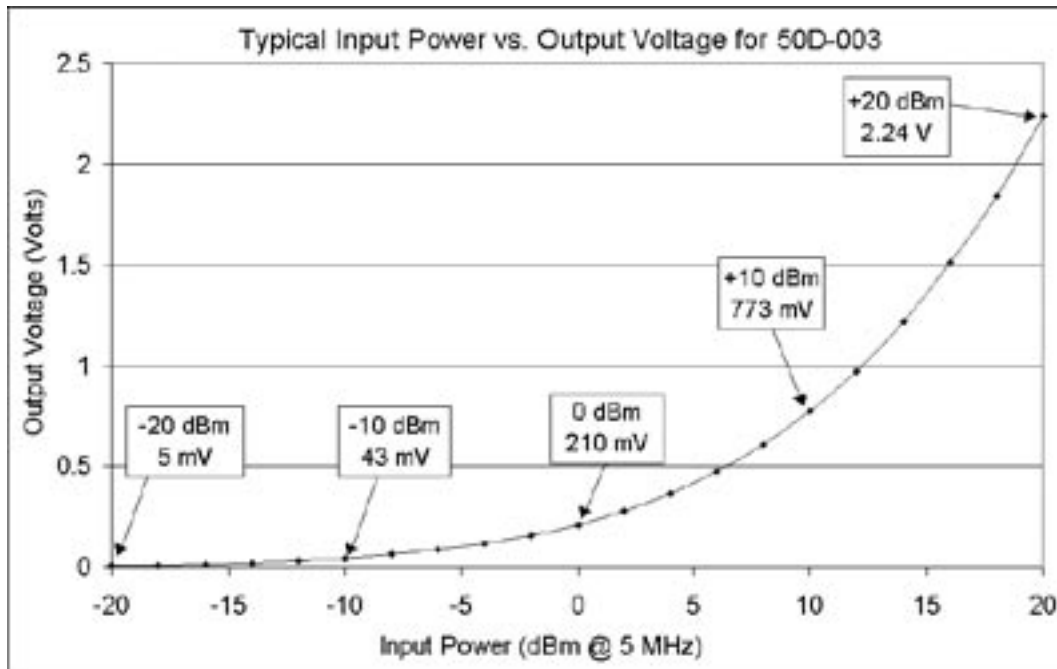
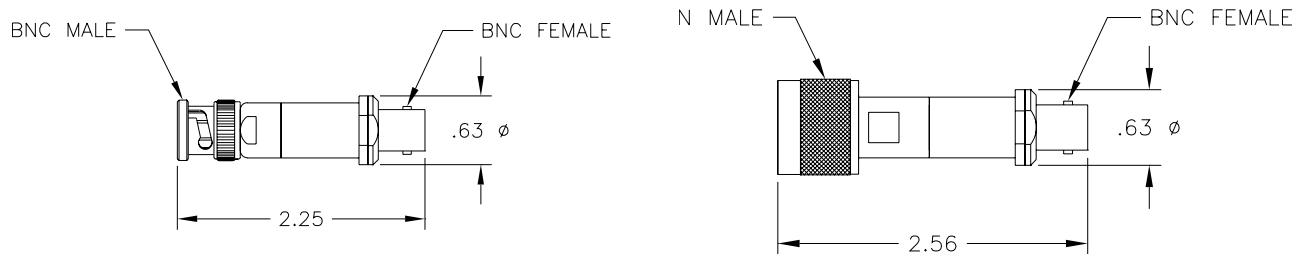
# Detectors 50 Ohm

Model	Frequency Range	VSWR Maximum	Flatness	Maximum RF Input Power	RF Input Connector	DC Output Connector
50D-003	1-1000 MHz	1.2:1	+/- .2 dB to 500 MHz +/- .3 dB to 1000 MHz	100 mW	N, BNC, TNC or SMA male	BNC female
50D-006	100 KHz-2000 MHz	1.2:1 @ 1000 MHz 1.3:1 @ 2000 MHz	+/- .1 dB per octave +/- .3 dB full band	100 mW	N, BNC, TNC or SMA male	BNC or SMA female
50D-030	1-2500 MHz	1.2:1 @ 1000 MHz 1.3:1 @ 2500 MHz	+/- .2 dB 1-500 MHz +/- .3 dB 500-1000 MHz +/- .5 dB 1000-2500 MHz	100 mW	N, BNC or SMA male	BNC or N female

## Common Specifications

Impedance	DC Output Polarity	Output Capacitance
50 Ohms	Negative or Positive (please specify)	1000 pF

Note: Detector output voltage will be either positive or negative based on which polarity of detector is ordered.



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# Detectors 75 Ohm

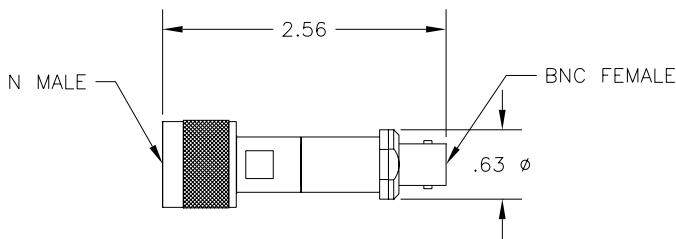
Model	Frequency Range	VSWR Maximum	Flatness	Maximum RF Input Power	RF Input Connector	DC Output Connector
75D-003	1-1000 MHz	1.2:1	+/- .2 dB to 500 MHz +/- .3 dB to 1000 MHz	100 mW	F, N, BNC or TNC male	BNC female
75D-004	200 KHz-1000 MHz	1.15:1 @ 500 MHz 1.2:1 @ 1000 MHz	+/- .5 dB	100 mW	BNC male	BNC female
75D-007*	1-1000 MHz	1.2:1	+/- .25 dB	50 mW	BNC, TNC or N male	BNC female

## Common Specifications

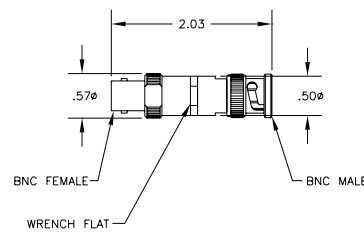
Impedance	DC Output Polarity	Output Capacitance
75 Ohms	Negative or Positive (please specify)	1000 pF

Note: Detector output voltage will be either positive or negative based on which polarity of detector is ordered.

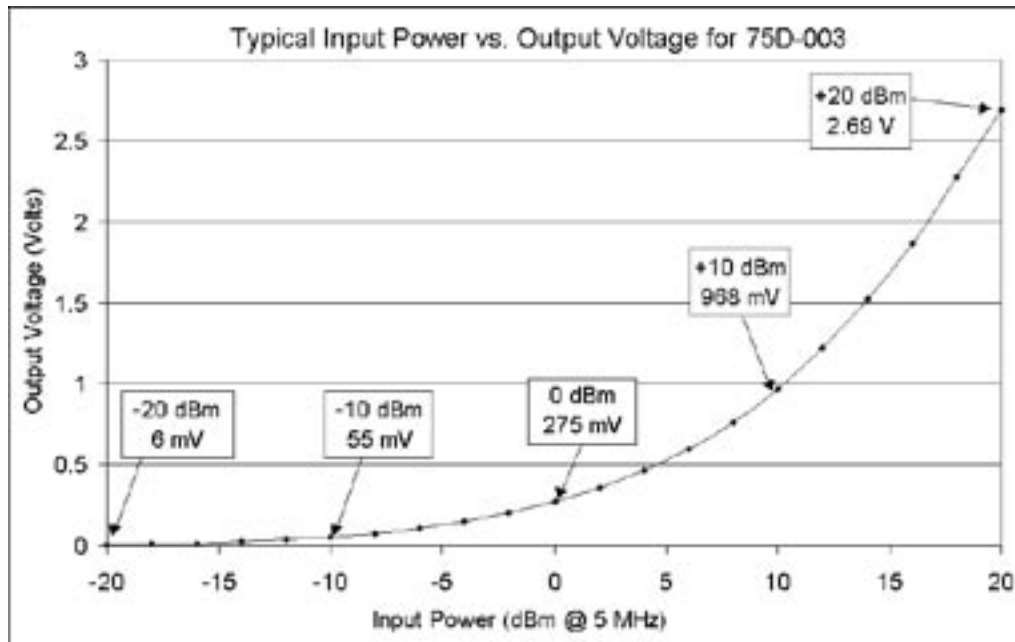
75D-003 / 75D-004



75D-007



\* Field Replaceable Diode



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# Impedance Matching Pads

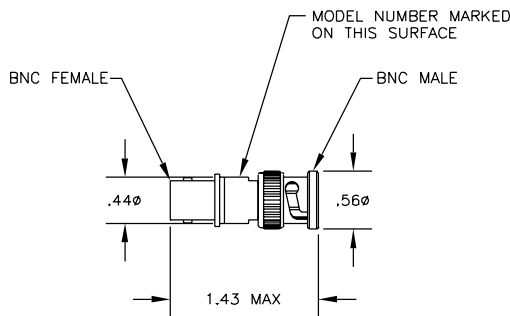
Model	Frequency Range	Impedance	Attenuation Loss	VSWR Maximum
57Z	DC-1000 MHz	50 Ohms male 75 Ohms female	5.7 dB +/- .5 dB	1.2:1
75Z	DC-1000 MHz	75 Ohms male 50 Ohms female	5.7 dB +/- .5 dB	1.2:1
57Z-2G	DC-2000 MHz	50 Ohms male 75 Ohms female	5.7 dB +/- .5 dB	1.2:1 DC-1000 MHz 1.3:1 1000-2000 MHz
75Z-2G	DC-2000 MHz	75 Ohms male 50 Ohms female	5.7 dB +/- .5 dB	1.2:1 DC-1000 MHz 1.3:1 1000-2000 MHz
57Z-3G	DC-3000 MHz	50 Ohms male 75 Ohms female	5.7 dB +/- .3 dB DC-1500 MHz 5.7 dB +/- .5 dB 1500-3000 MHz	1.2:1 DC-1500 MHz 1.35:1 1500-3000 MHz
75Z-3G	DC-3000 MHz	75 Ohms male 50 Ohms female	5.7 dB +/- .3 dB DC-1500 MHz 5.7 dB +/- .5 dB 1500-3000 MHz	1.2:1 DC-1500 MHz 1.35:1 1500-3000 MHz

## Common Specifications

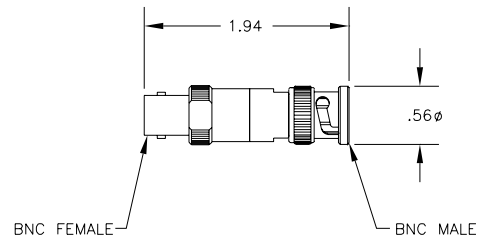
Input Power	Operating Temperature	RF Connectors - 50 Ohm Side	RF Connectors - 75 Ohm Side
1 Watt average 1000 Watts peak	-20° C to +85° C	BNC, TNC, N or SMA	BNC, TNC, N or F

**\* OTHER IMPEDANCES AVAILABLE - PLEASE CONTACT THE FACTORY**

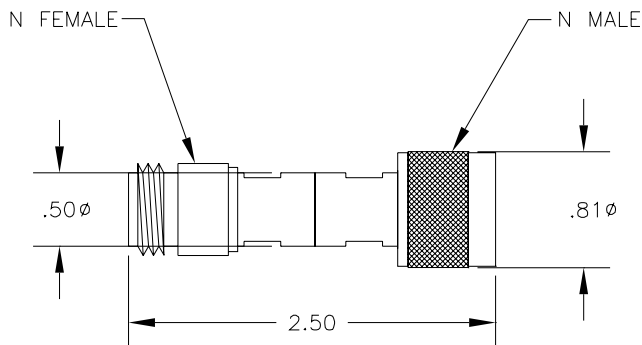
57Z / 75Z BNC



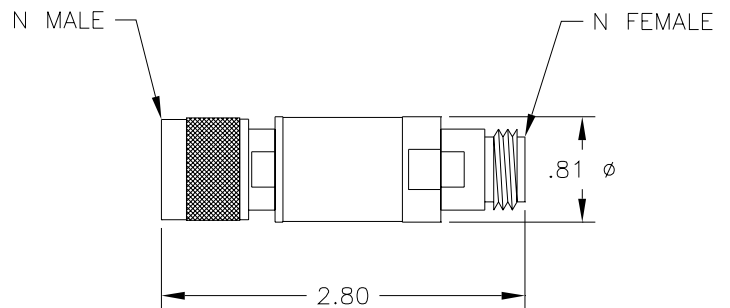
57Z-2G / 75Z-2G BNC



57Z / 75Z / 57Z-2G / 75Z-2G N



57Z-3G / 75Z-3G N



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# Impedance Matching Transformers

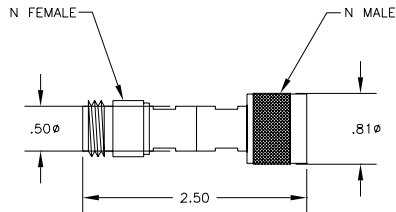
Model	Frequency Range	Impedance	Attenuation Loss Maximum	VSWR Maximum	Input Power
57ZT	0.5-600 MHz	50 Ohms male 75 Ohms female	0.75 dB .5-300 MHz 1 dB 300-600 MHz	1.2:1 .5-300 MHz 1.3:1 300-600 MHz	1 Watt average 1000 Watts peak
75ZT	0.5-600 MHz	75 Ohms male 50 Ohms female	0.75 dB .5-300 MHz 1 dB 300-600 MHz	1.2:1 .5-300 MHz 1.3:1 300-600 MHz	1 Watt average 1000 Watts peak
57ZT-1G	0.5-1000 MHz	50 Ohms male 75 Ohms female	0.75 dB .5-300 MHz 1.2 dB 300-1000 MHz	1.2:1 .5-300 MHz 1.3:1 300-1000 MHz	1 Watt average 1000 Watts peak
75ZT-1G	0.5-1000 MHz	75 Ohms male 50 Ohms female	0.75 dB .5-300 MHz 1.2 dB 300-1000 MHz	1.2:1 .5-300 MHz 1.3:1 300-1000 MHz	1 Watt average 1000 Watts peak
57ZTT-AA	800-2200 MHz	50 Ohms male 75 Ohms female	0.5 dB	1.3:1	20 Watts average
75ZTT-AA	800-2200 MHz	75 Ohms male 50 Ohms female	0.5 dB	1.3:1	20 Watts average

## Common Specifications

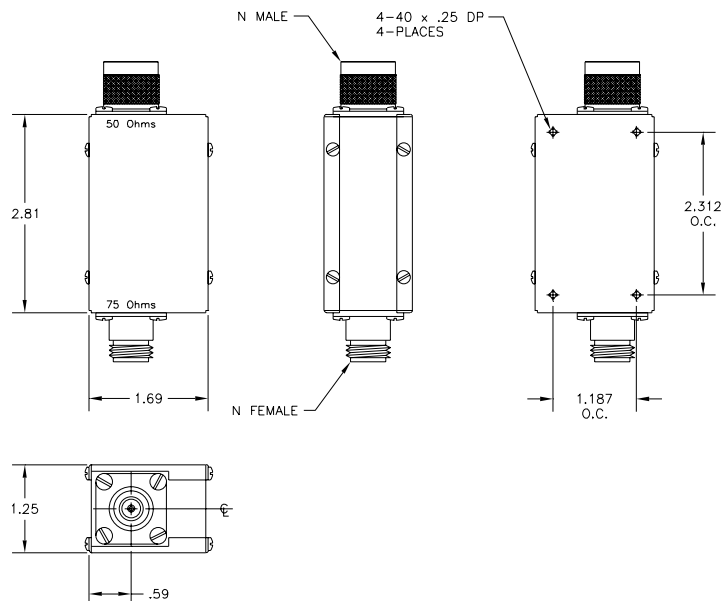
Operating Temperature	RF Connectors - 50 Ohm Side	RF Connectors - 75 Ohm Side
-20° C to +85° C	BNC, TNC, N or SMA	BNC, TNC, N or F

**\* OTHER IMPEDANCES AVAILABLE - PLEASE CONTACT THE FACTORY**

57ZT / 75ZT / 57ZT-1G / 75ZT-1G



57ZTT-AA / 75ZTT-AA



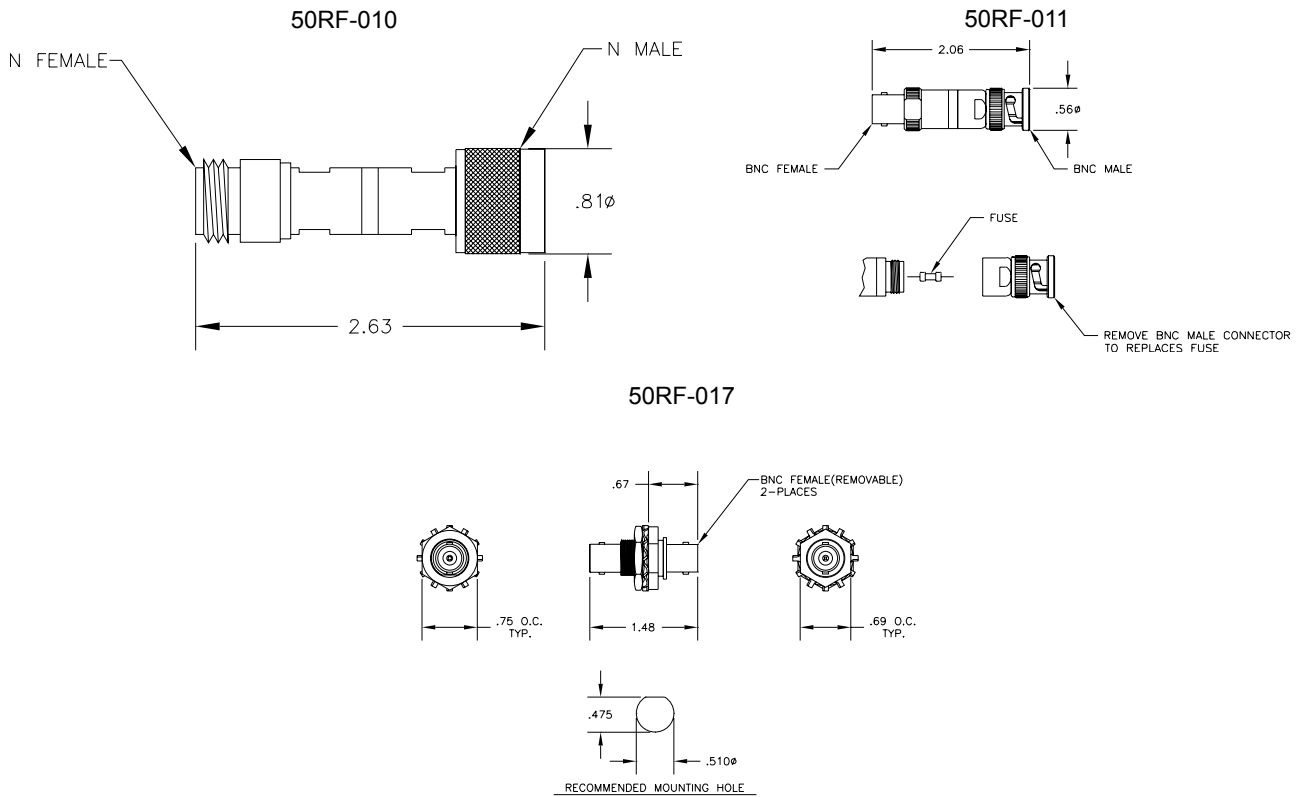
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# RF Fuse Holders

Model	Frequency Range	Impedance	Insertion Loss	VSWR common to fuse element	Fusing Level	Connectors
50RF-010	DC-1000 MHz	50 Ohms	with 1/16 amp fuse element <2 dB @ 1000 MHz with 1/8 amp fuse element <1.2 dB @ 1000 MHz with 1/4 amp fuse element <1 dB @ 1000 MHz	with 1/16 amp fuse element 1.3:1-500 MHz 1.5:1-1000 MHz with 1/8 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz with 1/4 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz	with 1/16 amp fuse element +23 dBm (195 mW) with 1/8 amp fuse element +29 dBm (785 mW) with 1/4 amp fuse element +35 dBm (3.13 Watts)	N male / N female
50RF-011	DC-1000 MHz	50 Ohms	with 1/16 amp fuse element <2 dB @ 1000 MHz with 1/8 amp fuse element <1.2 dB @ 1000 MHz with 1/4 amp fuse element <1 dB @ 1000 MHz	with 1/16 amp fuse element 1.3:1-500 MHz 1.5:1-1000 MHz with 1/8 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz with 1/4 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz	with 1/16 amp fuse element +23 dBm (195 mW) with 1/8 amp fuse element +29 dBm (785 mW) with 1/4 amp fuse element +35 dBm (3.13 Watts)	BNC male / BNC female
50RF-017	DC-1000 MHz	50 Ohms	with 1/16 amp fuse element <2 dB @ 1000 MHz with 1/8 amp fuse element <1.2 dB @ 1000 MHz with 1/4 amp fuse element <1 dB @ 1000 MHz	with 1/16 amp fuse element 1.3:1-500 MHz 1.5:1-1000 MHz with 1/8 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz with 1/4 amp fuse element 1.2:1-500 MHz 1.4:1-1000 MHz	with 1/16 amp fuse element +23 dBm (195 mW) with 1/8 amp fuse element +29 dBm (785 mW) with 1/4 amp fuse element +35 dBm (3.13 Watts)	BNC female / BNC female panel mount

Fuse Rating	100% of rated current	200% of rated current
1/16 A	4 hours minimum	1 second maximum (0.015 seconds typical)
1/8 A	4 hours minimum	1 second maximum (0.04 seconds typical)
1/4 A	4 hours minimum	1 second maximum (0.1 seconds typical)

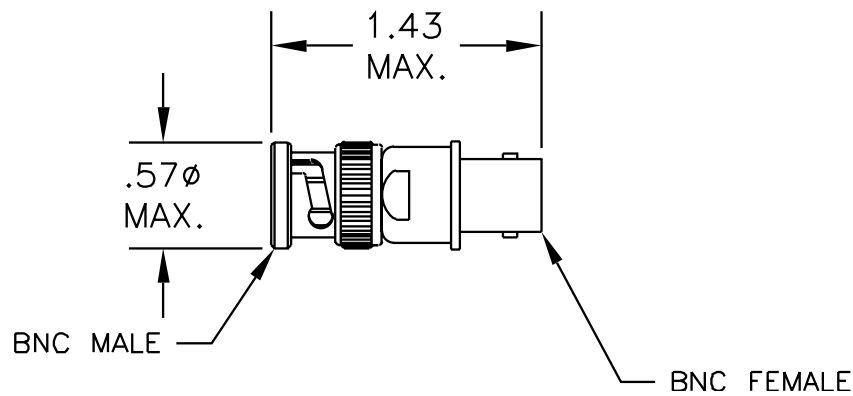


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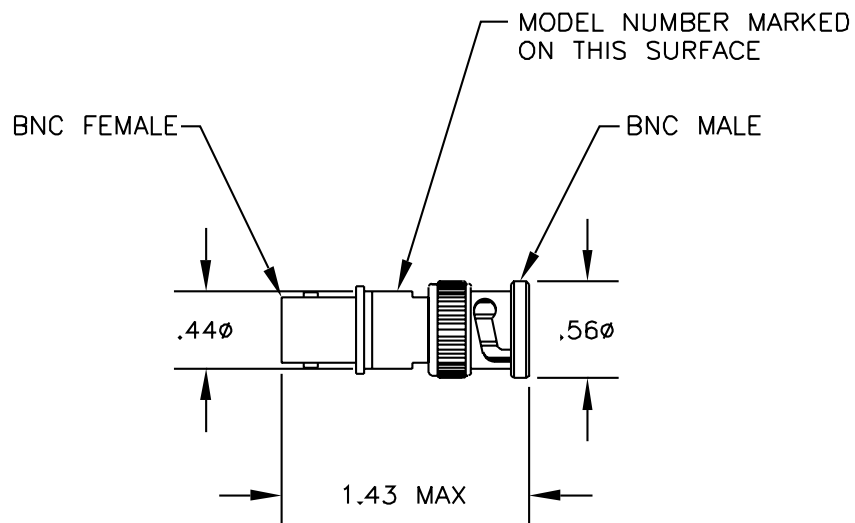
# Feedthru Terminations

Model	Frequency Range	Impedance	VSWR (maximum)	RF Input Power	Operating Temperature	RF Connectors
50L-001	DC-1000 MHz	50 Ohms	1.1:1 DC-500 MHz 1.2:1 500-1000 MHz	1 Watt average 1000 Watts peak	-20° C to +100° C	BNC male / BNC female
50L-012	DC-1000 MHz	50 Ohms	1.2:1	2 Watts average 500 Watts peak	-20° C to +100° C	BNC male / BNC female
75L-001	DC-500 MHz	75 Ohms	1.2:1	1 Watt average 1000 Watts peak	-20° C to +100° C	BNC male / BNC female
75L-004	DC-1000 MHz	75 Ohms	1.2:1 DC-500 MHz 1.4:1 500-1000 MHz	1 Watt average 1000 Watts peak	-20° C to +100° C	BNC male / BNC female
600L-001	DC-50 MHz	600 Ohms (unbalanced)	1.2:1	1 Watt average 1000 Watts peak	-20° C to +100° C	BNC male / BNC female

50L-012 / 75L-004



50L-001 / 75L-001 / 600L-001



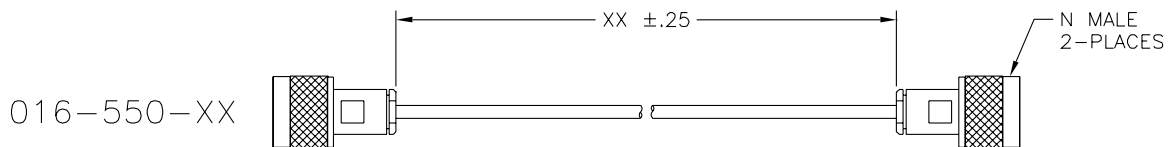
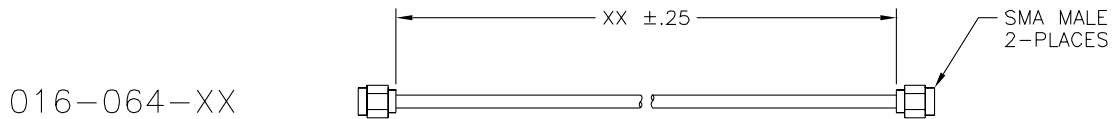
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# RF Cable Assemblies

Model	RF Connectors	Frequency Range	RG Type	Impedance	Temperature Range
016-064-XX*	SMA male / male	DC-8000 MHz	RG-402 type **	50 Ohms nominal	-55° C to +100° C
016-550-XX*	N male / male	DC-6000 MHz	RG-402 type **	50 Ohms nominal	-55° C to +100° C

\* (xx) insert length in inches

\*\* Cable Description: Inner conductor is 19 AWG silver coated copper-covered steel, insulator is TFE core, outer conductor is copper-tin flexible composite braid with 100% shield coverage.



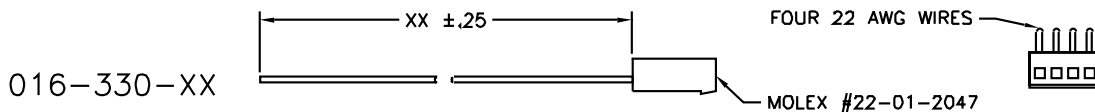
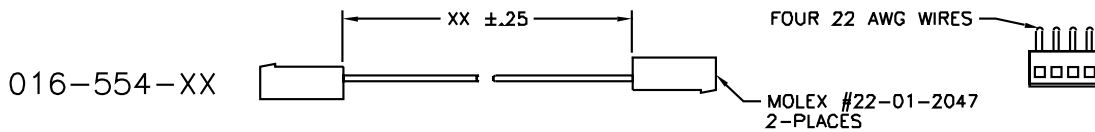
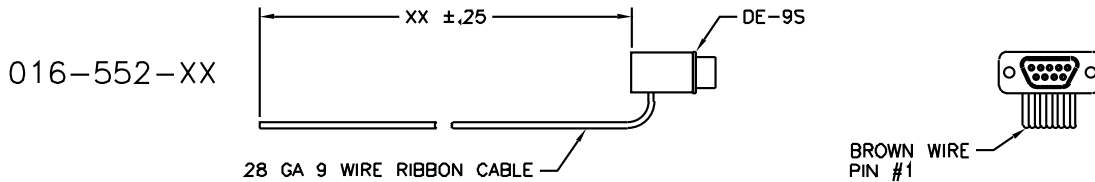
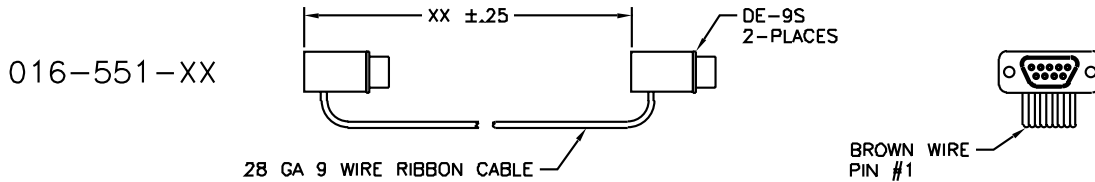
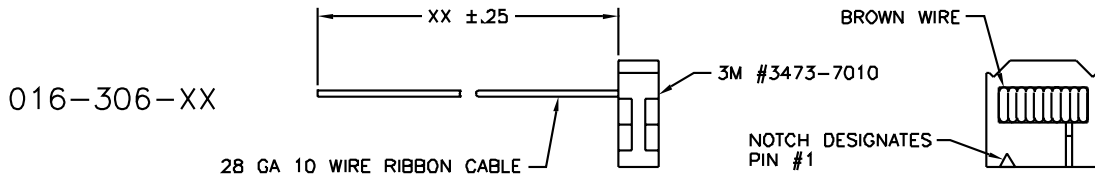
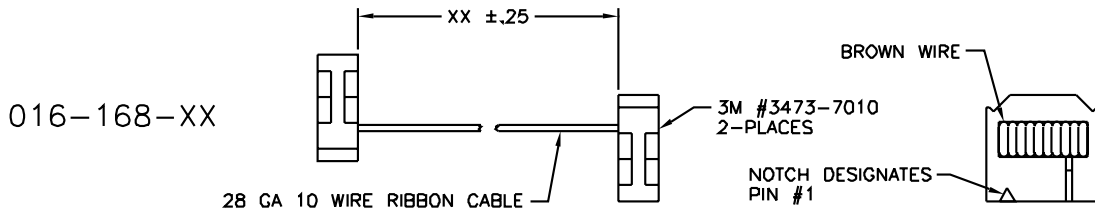
	SMA male / male and N male / male	SMA male / male	N male / male
Frequency	Insertion Loss typical	Input Power maximum	VSWR typical
500 MHz	0.10 dB / foot	550 Watts	< 1.05:1
1000 MHz	0.15 dB / foot	350 Watts	< 1.05:1
2000 MHz	0.22 dB / foot	250 Watts	< 1.05:1
3000 MHz	0.27 dB / foot	185 Watts	< 1.05:1
4000 MHz	0.33 dB / foot	150 Watts	< 1.05:1
5000 MHz	0.36 dB / foot	135 Watts	< 1.10:1
6000 MHz	0.44 dB / foot	115 Watts	< 1.10:1
7000 MHz	0.47 dB / foot	100 Watts	< 1.10:1
8000 MHz	0.48 dB / foot	90 Watts	< 1.10:1

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# DC Cable Assemblies

Model	Description	Mating Connector
016-168-XX *	10 pin ribbon cable female / female	T & B 609-1057 male and 3M #3793-5303 male
016-306-XX *	10 pin ribbon cable female / open wires	T & B 609-1057 male and 3M #3793-5303 male
016-551-XX *	D-subminiature 9 pin (DE-9S) female / female	D-subminiature 9 pin male (DE-9P)
016-552-XX *	D-subminiature 9 pin (DE-9S) female / open wires	D-subminiature 9 pin male (DE-9P)
016-554-XX *	4 pin Molex female / female	Molex #22-12-2044 male
016-330-XX *	4 pin Molex female / open wires	Molex #22-12-2044 male

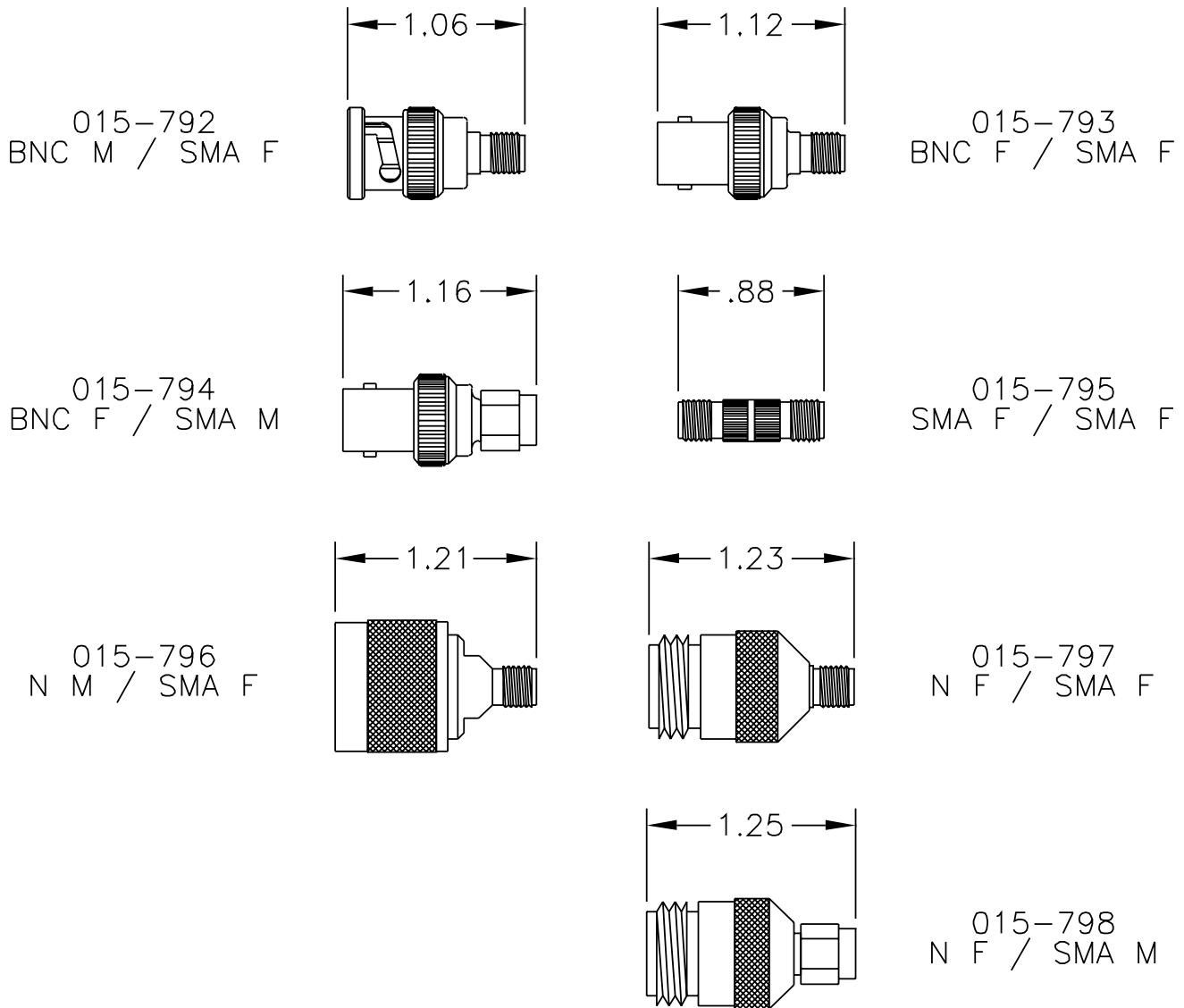
\* (xx) insert length in inches



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# Adapters

Model	Connectors	Plating
015-792	SMA female to BNC male	Gold Pins / Gold Body
015-793	SMA female to BNC female	Gold Pins / Gold Body
015-794	SMA male to BNC female	Gold Pins / Gold Body
015-795	SMA female to SMA female	Gold Pins / Gold Body
015-796	SMA female to N male	Gold Pins / Gold Body
015-797	SMA female to N female	Gold Pins / Gold Body
015-798	SMA male to N female	Gold Pins / Gold Body



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