

Fixed Attenuators

Low Power

Medium Power

High Power

Kits



Terminations

Low Power

Medium Power

High Power

Fixed Attenuators

Model Number Index

Please add connector type to the end of part number to complete model number ie; 50F-003 SMA.

Fixed Attenuators

Low Power	Frequency Range	Avg. Power	Page	Medium Power	Frequency Range	Avg. Power	Page
<u>50 Ohm</u>				<u>50 Ohm</u>			
50F-XXX	DC-2200 MHz	1 Watt	3-3	50FH-XXX-5	DC-2000 MHz	5 Watts	3-9
50FFD-XXX	600-1900 MHz	DC Passing	3-5	50FH-XXX-10	DC-2000 MHz	10 Watts	3-9
50FP-XXX-H2	DC-2000 MHz	2 Watts	3-6	50FH-XXX-30	DC-2000 MHz	30 Watts	3-11
50FP-XXX-H3	DC-3000 MHz	2 Watts	3-6	50FH-XXX-30-3	DC-3000 MHz	30 Watts	3-11
50FP-XXX-H4	DC-4000 MHz	2 Watts	3-6	50FH-XXX-50	DC-2000 MHz	50 Watts	3-11
50FP-XXX-H6	DC-6000 MHz	2 Watts	3-6	50FH-XXX-50-3	DC-3000 MHz	50 Watts	3-11
50HF-XXX	DC-18 GHz	2 Watts	3-18	50FHC-XXX-10	DC-4000 MHz	10 Watts	3-10
<u>75 Ohm</u>				<u>75 Ohm</u>			
75F-XXX	DC-1450 MHz	1 Watt	3-4	50FHC-XXX-15	DC-4000 MHz	15 Watts	3-10
75FFD-XXX	450-2000 MHz	DC Passing	3-5	50FHC-XXX-20	DC-4000 MHz	20 Watts	3-10
75FP-XXX-2G	DC-2000 MHz	1 Watt	3-7	50FHC-XXX-25	DC-4000 MHz	25 Watts	3-10
75FP-XXX-3G	DC-3000 MHz	.5 Watt	3-7	50FHC-XXX-40	DC-4000 MHz	40 Watts	3-10
<u>Kits</u>				<u>High Power</u>			
<u>50 Ohm</u>				<u>50 Ohm</u>			
50KFA-005	DC-2200 MHz	1 Watt	3-19	50FH-XXX-100	DC-1000 MHz	100 Watts	3-12
50KFA-006	DC-2200 MHz	1 Watt	3-19	50FH-XXX-100-2	DC-2000 MHz	100 Watts	3-12
50KFA-008	DC-18 GHz	2 Watts	3-19	50FH-XXX-100-3	DC-3000 MHz	100 Watts	3-12
50KFA-014	DC-18 GHz	2 Watts	3-19	50FH-XXX-300	DC-1000 MHz	300 Watts	3-14
50KFA-074	DC-2200 MHz	1 Watt	3-19	50FH-XXX-300-2	DC-2000 MHz	300 Watts	3-14
				50FHAO-XXX-100	DC-3000 MHz	100 Watts	3-13
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				50FHAM-XX-500	DC-2500 MHz	500 Watts	3-15
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Terminations

Low Power	Frequency Range	Avg. Power	Page	Medium Power	Frequency Range	Avg. Power	Page
<u>50 Ohm</u>				<u>50 Ohm and Mismatches</u>			
50T-001	DC-2000 MHz	1 Watt	3-21	50T-034-XXX	DC-1000 MHz	50 Watts	3-29
50T-002	DC-2000 MHz	1 Watt	3-21	50T-052	DC-3000 MHz	5 Watts	3-25
50T-007	DC-8000 MHz	1 Watt	3-21	50T-053	DC-3000 MHz	5 Watts	3-25
50T-008	DC-8000 MHz	1 Watt	3-21	50T-054	DC-1200 MHz	30 Watts	3-27
50T-009	DC-8000 MHz	1 Watt	3-21	50T-055	DC-1200 MHz	30 Watts	3-27
50T-010	DC-8000 MHz	1 Watt	3-21	50T-056	DC-1200 MHz	30 Watts	3-27
50T-013	DC-2000 MHz	1 Watt	3-21	50T-057	DC-1200 MHz	30 Watts	3-27
50T-014	DC-2000 MHz	1 Watt	3-21	50T-058	DC-1200 MHz	30 Watts	3-27
50T-026	DC-18 GHz	1 Watt	3-24	50T-059	DC-1200 MHz	30 Watts	3-27
50T-129	DC-18 GHz	1 Watt	3-24	50T-116	DC-3500 MHz	30 Watts	3-27
50T-142	DC-8000 MHz	2 Watts	3-23	50T-128	DC-18 GHz	5 Watts	3-24
50T-143	DC-8000 MHz	2 Watts	3-23	50T-191	DC-18 GHz	5 Watts	3-24
50T-199	DC-18 GHz	2 Watts	3-24	50T-334 X.X	DC-3000 MHz	50 Watts	3-28
50T-261	DC-2000 MHz	2 Watts	3-22	50T-357-X.X	DC-3000 MHz	40 Watts	3-28
50T-300	DC-3000 MHz	2 Watts	3-22	50T-358-X.X	DC-3000 MHz	20 Watts	3-28
50T-317	DC-2500 MHz	1 Watt	3-20	50T-359-X.X	DC-3000 MHz	15 Watts	3-28
50T-319	DC-2200 MHz	1 Watt	3-20	50T-410	DC-4000 MHz	5 Watts	3-25
50T-325	DC-2500 MHz	1 Watt	3-20	<u>High Power</u>			
50T-352	DC-6000 MHz	1 Watt	3-20	<u>Frequency Range</u>			
50T-363	DC-4000 MHz	2 Watts	3-22	<u>50 Ohm and Mismatches</u>			
50T-364	DC-2200 MHz	1 Watt	3-20	50T-032-XXX	DC-1000 MHz	100 Watts	3-30
50T-376	DC-4000 MHz	2 Watts	3-22	50T-069-XXX	DC-1000 MHz	300 Watts	3-33
50T-378	DC-2200 MHz	1 Watt	3-20	50T-133-XXX	DC-1000 MHz	200 Watts	3-32
<u>75 Ohm</u>				<u>75 Ohm and Mismatches</u>			
75T-001	DC-1000 MHz	1 Watt	3-26	50T-242	DC-2000 MHz	100 Watts	3-30
75T-002	DC-1000 MHz	1 Watt	3-26	50T-243	DC-3000 MHz	500 Watts	3-30
75T-017	DC-2000 MHz	1 Watt	3-26	50T-297	DC-2500 MHz	500 Watts	3-34
75T-018	DC-2000 MHz	1 Watt	3-26	50T-298	DC-2400 MHz	1000 Watts	3-35
75T-019	DC-2000 MHz	1 Watt	3-26	50T-299-X	DC-2400 MHz	1500 Watts	3-36
75T-035	DC-2000 MHz	2 Watts	3-26	50T-303-XXX	DC-3000 MHz	100 Watts	3-31
				50T-338	DC-3000 MHz	200 Watts	3-31

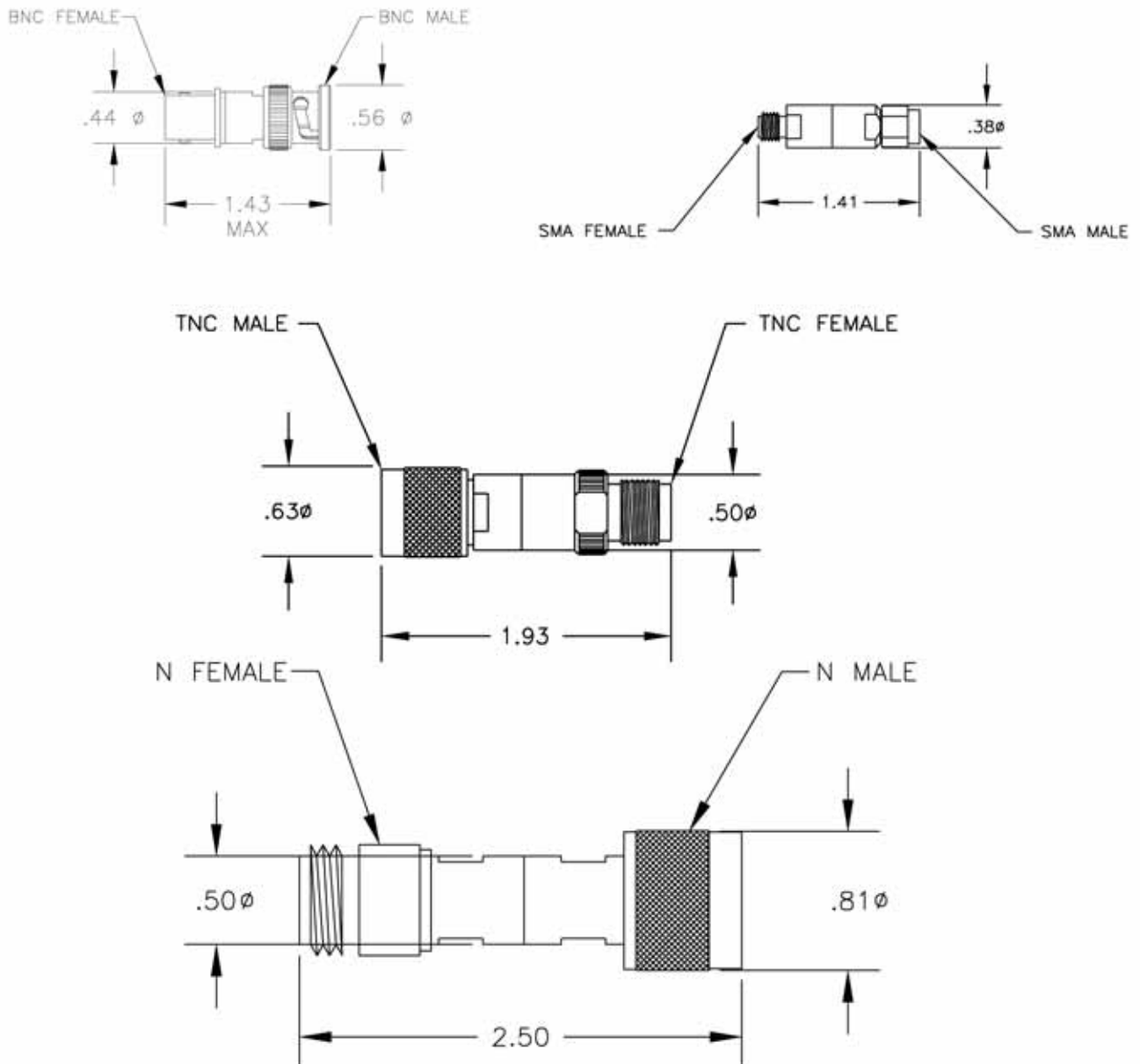
1 Watt Fixed Attenuators F Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50F-XXX	DC-2200 MHz	1 thru 20 dB in any 1 dB increment	+/- .5 dB DC-1000 MHz +/- .8 dB 1000-2200 MHz	1.2:1 DC-1000 MHz 1.4:1 1000-2200 MHz	BNC, TNC, SMA or N
50F-XXX	DC-1000 MHz	21 thru 40 dB in any 1 dB increment	+/- .5 dB or 2% maximum	1.2:1	BNC, TNC, SMA or N

* (XXX) insert attenuation value

Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
50 Ohms	1 Watt	1000 Watts	-55° C to +125° C



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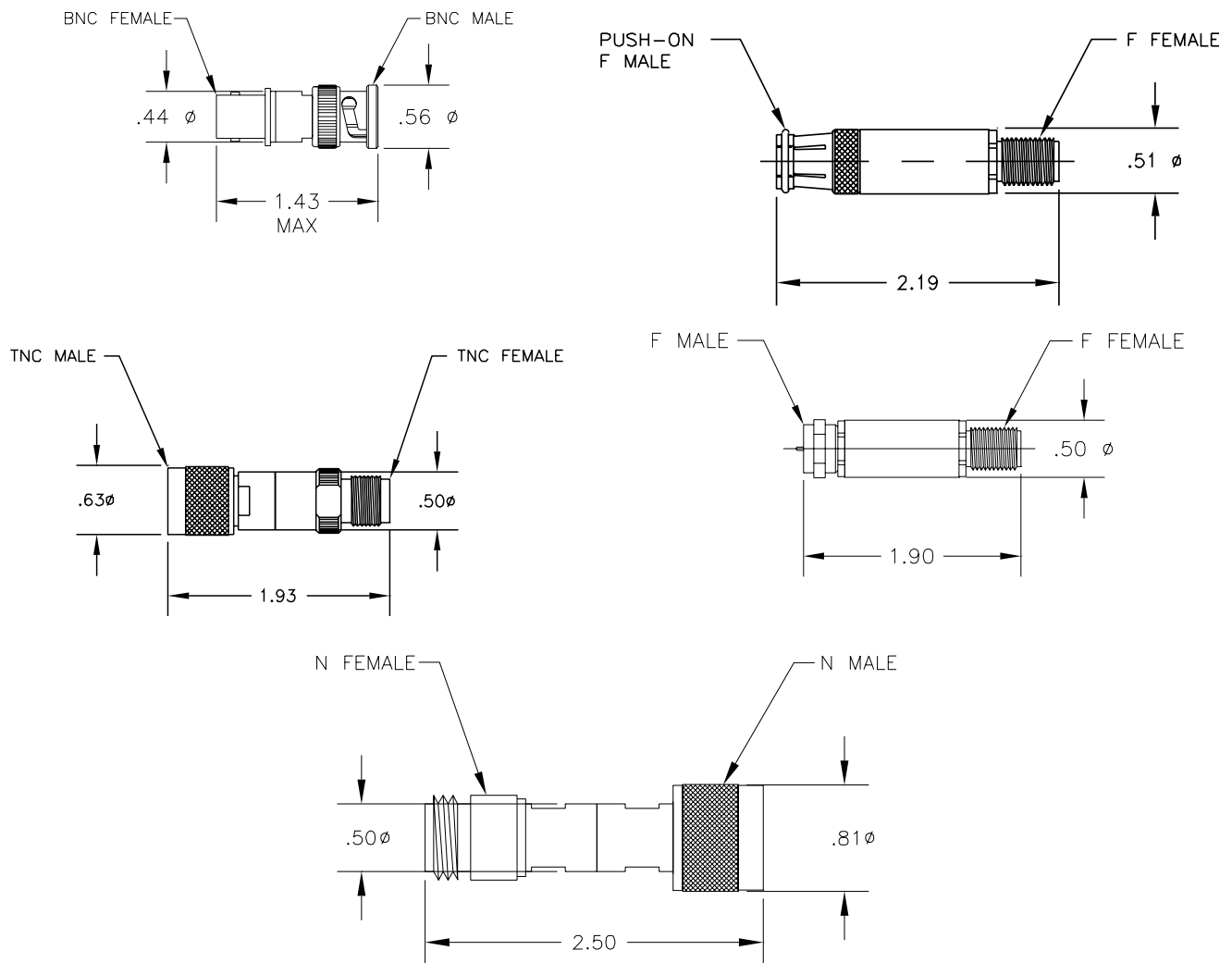
75 Ohm Fixed Attenuators F Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
75F-XXX	DC-500 MHz	1 thru 30 dB in any 1 dB increment	+/- .2 dB DC-100 MHz +/- .4 dB 100-500 MHz	1.3:1	BNC
75F-XXX	DC-1000 MHz	1 thru 20 dB in any 1 dB increment	+/- .3 dB DC-500 MHz +/- .5 dB 500-1000 MHz	1.2:1 @ 500 MHz 1.3:1 @ 1000 MHz	N or F (Screw On)
75F-XXX	DC-1000 MHz	1 thru 20 dB in any 1 dB increment	+/- .1 dB DC-30 MHz +/- .3 dB 30-500 MHz +/- .5 dB 500-1000 MHz	1.15:1 @ 500 MHz 1.3:1 @ 1000 MHz	TNC
75F-XXX	DC-1450 MHz	1 thru 20 dB in any 1 dB increment	+/- .3 dB DC-500 MHz +/- .5 dB 500-1000 MHz +/- .5 dB or 5% 1000-1450 MHz	1.2:1 @ 500 MHz 1.3:1 @ 1000 MHz 1.4:1 @ 1450 MHz	F (Push On)

* (XXX) insert attenuation value

Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
75 Ohms	1 Watt	1000 Watts	-55° C to +125° C



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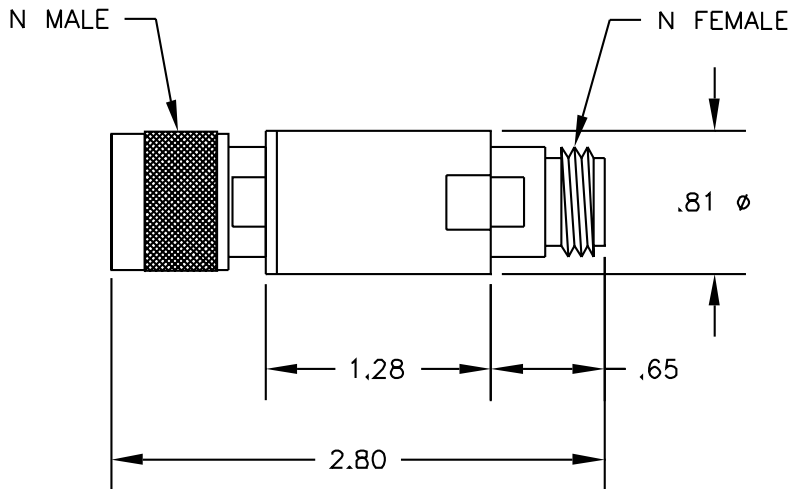
DC Passing Attenuators

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	DC Resistance	RF Connectors
50FFD-XXX	600-1900 MHz	3 thru 20 dB in any 1 dB increment	+/- .25 dB	1.3:1	.05 Ohms nominal	N, TNC, BNC or SMA male/female
75FFD-XXX	450 -2000 MHz	3 thru 20 dB in any 1 dB increment	+/- .5 dB	1.4:1	.1 Ohm nominal	F male/female

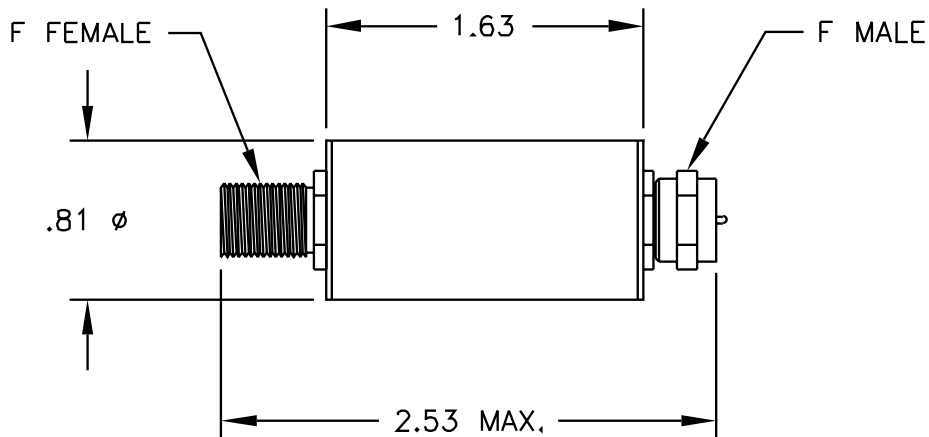
* (XXX) insert attenuation value

Model	Impedance	Input Power Average	DC Current Handling	DC Breakdown Maximum	Operating Temperature
50FFD-XXX	50 Ohms	+21 dBm	4 Amps maximum	150 Volts	-40° C to +85° C
75FFD-XXX	75 Ohms	1 Watt	2 Amps maximum	50 Volts	-40° C to +85° C

50FFD-XXX



75FFD-XXX



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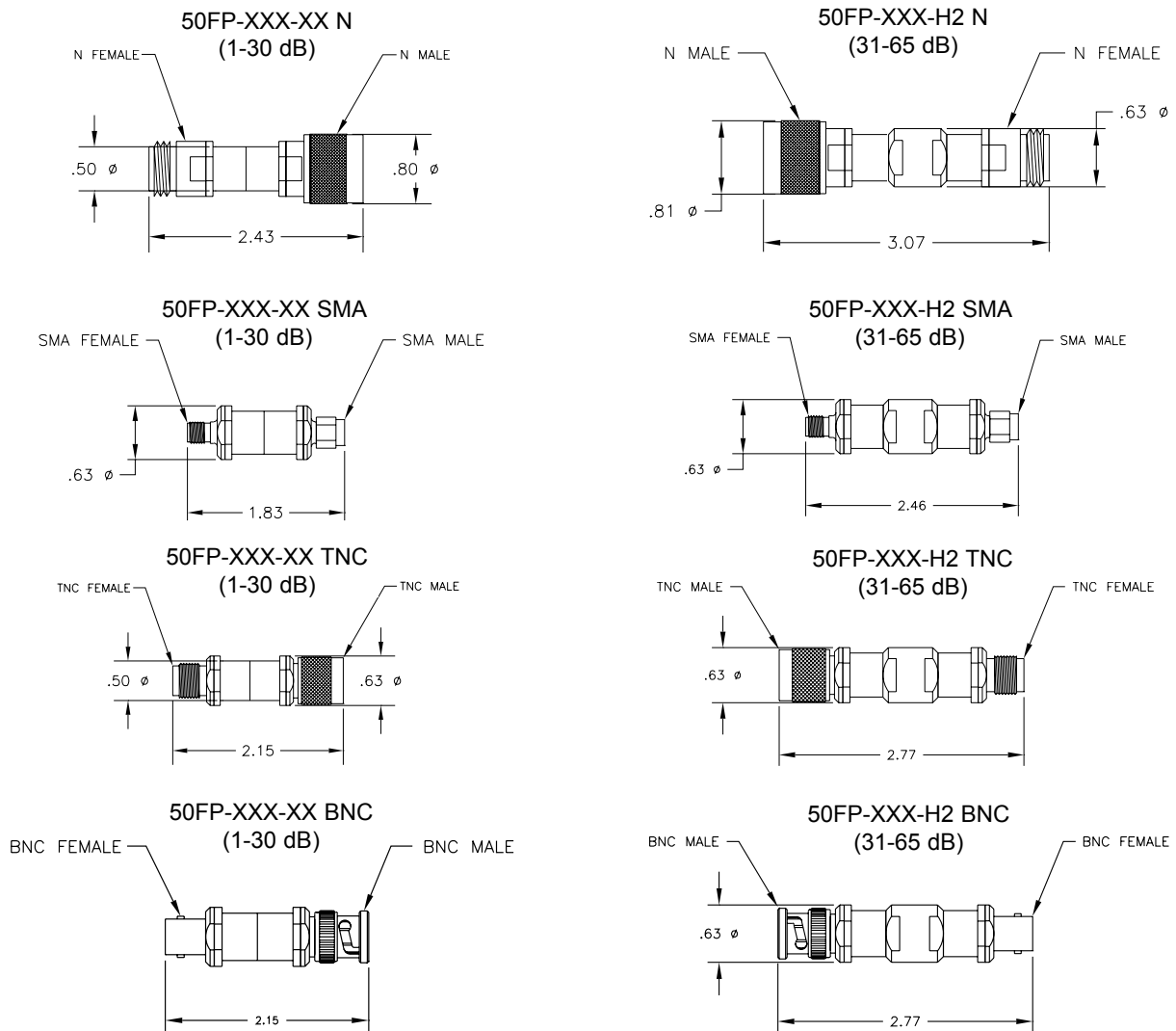
2 Watt Fixed Attenuators FP Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FP-XXX-H2	DC-2000 MHz	1 thru 30 dB in any 1 dB increment	+/- .3 dB or 2%	1.1:1 DC-500 MHz 1.3:1 500-2000 MHz	BNC, N, SMA 7/16 or TNC
50FP-XXX-H2	DC-2000 MHz	31 thru 65 dB in any 1 dB increment	+/- .4 dB DC-500 MHz +/- .8 dB 500-1000 MHz +/- 1 dB 1000-2000 MHz	1.1:1 DC-500 MHz 1.3:1 500-2000 MHz	BNC, N, SMA 7/16 or TNC
50FP-XXX-H3	DC-3000 MHz	1 thru 30 dB in any 1 dB increment	+/- .3 dB or 2%	1.3:1	BNC, N, TNC or SMA
50FP-XXX-H4	DC-4000 MHz	1 thru 30 dB in any 1 dB increment	+/- .3 dB or 2% DC-2000 MHz +/- .4 dB or 2% 2000-4000 MHz	1.15:1 DC-2000 MHz 1.25:1 2000-4000 MHz	BNC, N, TNC or SMA
50FP-XXX-H6	DC-6000 MHz	1 thru 20 dB in any 1 dB increment	+/- .3 dB or 2% DC-3000 MHz +/- .4 dB 3000-4000 MHz +/- .5 dB 4000-6000 MHz	1.15:1 DC-3000 MHz 1.3:1 3000-4000 MHz 1.35:1 4000-6000 MHz	N or SMA

* (XXX) insert attenuation value

Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
50 Ohms	2 Watts @ +25° C derate to 1 Watt @ +85° C	1000 Watts	-55° C to +125° C



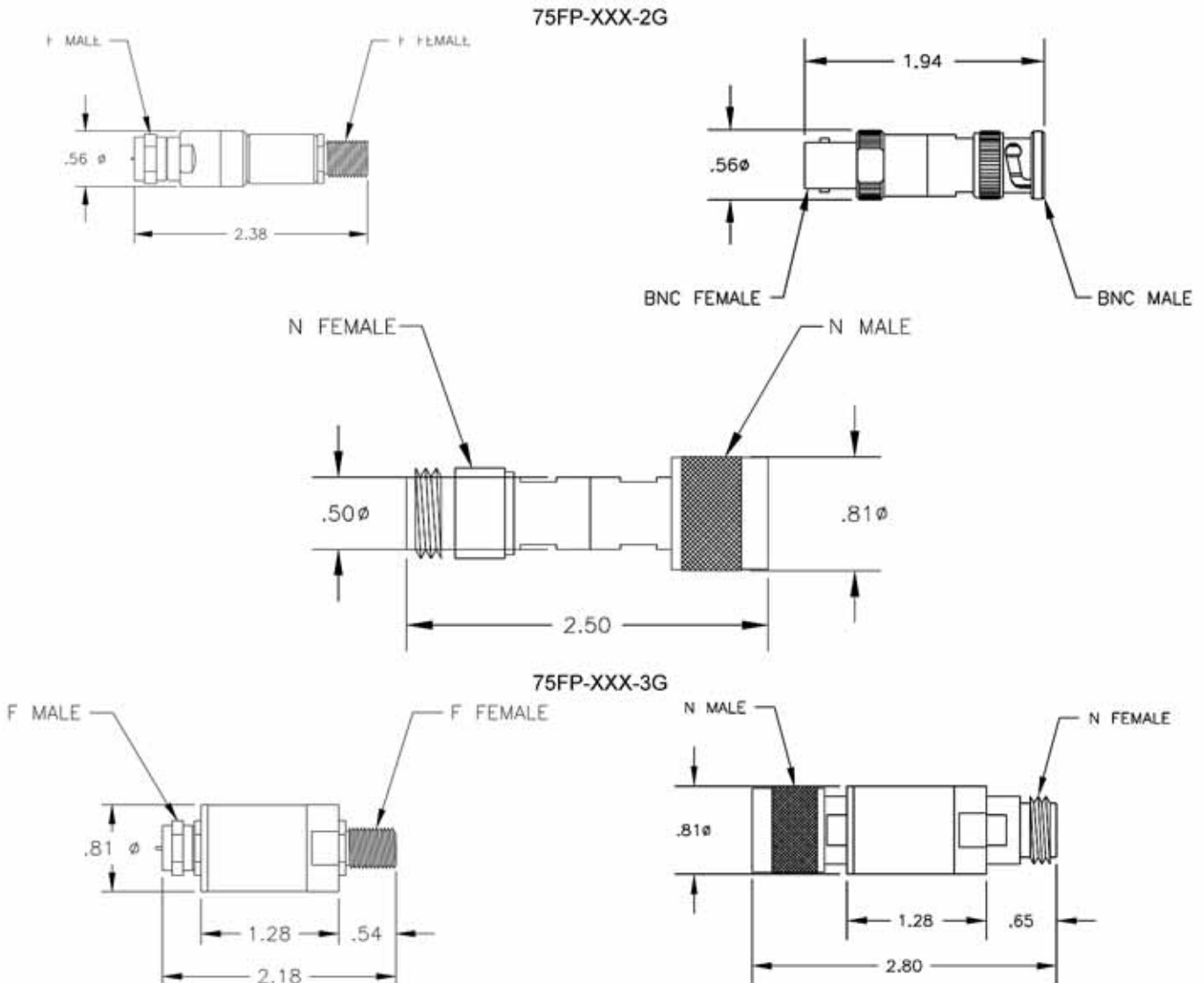
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75 Ohm Fixed Attenuators FP Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
75FP-XXX-2G	DC-2000 MHz	1 thru 20 dB in any 1 dB increment	+/- .3 dB DC-1000 MHz +/- .5 dB or 3% 1000-2000 MHz	1.2:1 DC-500 MHz 1.3:1 500-1000 MHz 1.4:1 1000-2000 MHz	F, BNC or N
75FP-XXX-3G	DC-3000 MHz	3 thru 20 dB in any 1 dB increment	+/- .3 dB DC-1300 MHz +/- .5 dB 1300-3000 MHz	1,12:1 DC-1300 MHz 1.3:1 1300-3000 MHz	F or N

* (XXX) insert attenuation value

Model	Impedance	Input Power Average	Peak Power	Operating Temperature
75FP-XXX-2G	75 Ohms	1 Watt @ +25° C	1000 Watts	-55° C to +125° C
75FP-XXX-3G	75 Ohms	.5 Watt @ +25° C	100 Watts	-55° C to +125° C



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5 Watt Fixed Attenuators FPE Series

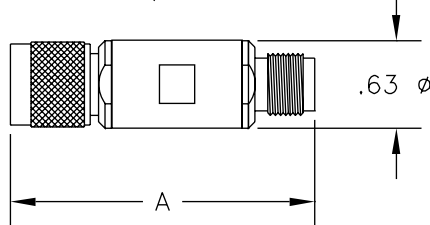
Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FPE-XXX	DC-6000 MHz	1 thru 40 dB in any 1 dB increment	+/- .3 dB DC-3000 MHz +/- .4 dB 3000-4000 MHz +/- .5 dB 4000-6000 MHz	1.1:1 DC-1000 MHz 1.2:1 1000-3000 MHz 1.3:1 3000-5000 MHz 1.35:1 5000-6000 MHz	N, TNC or SMA
50FPE-XXX	DC-4000 MHz	41 thru 60 dB in any 1 dB increment	+/- .5 dB	1.25:1	N, TNC or SMA
50FPE-XXX	DC-4000 MHz	1 thru 40 dB in any 1 dB increment	+/- .3 dB DC-3000 MHz +/- .4 dB 3000-4000 MHz	1.1:1 DC-1000 MHz 1.2:1 1000-3000 MHz 1.3:1 3000-4000 MHz	BNC

* (XXX) insert attenuation value

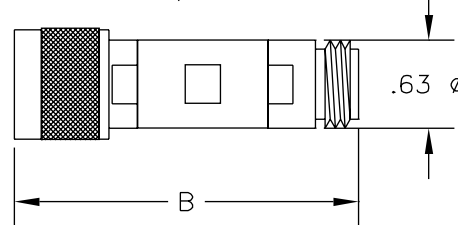
Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
50 Ohms	5 Watts @ +25° C derate to 1 Watt @ +85° C	1000 Watts	-55° C to +100° C

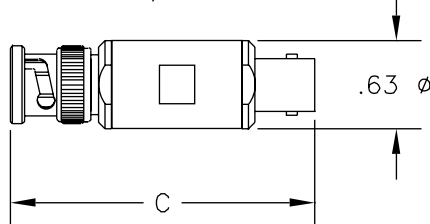
TNC MALE / TNC FEMALE



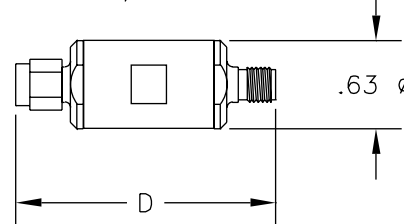
N MALE / N FEMALE



BNC MALE / BNC FEMALE



SMA MALE / SMA FEMALE



ATTENUATION	DIM: A	DIM: B	DIM: C	DIM: D
0-20 dB	2.16	2.45	2.16	1.85
21-60 dB	2.57	2.86	2.57	2.26

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5 & 10 Watt Fixed Attenuators FH Series

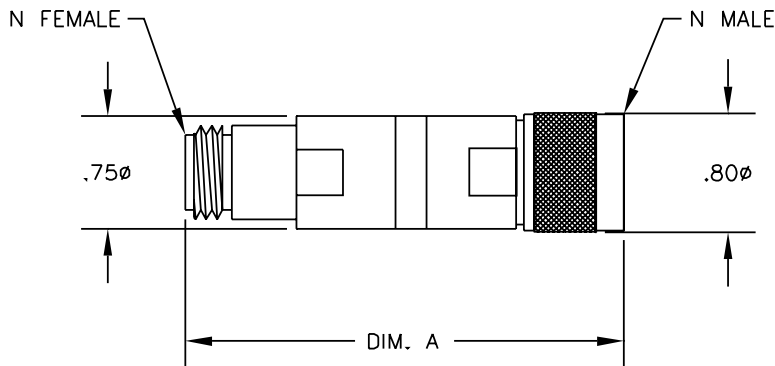
High Peak Power

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FH-XXX-5	DC-2000 MHz	1 thru 20 dB in any 1 dB increment	+/- .2 dB DC-500 MHz +/- .5 dB 500-1000 MHz +/- .8 dB 1000-2000 MHz	1.1:1 DC-500 MHz 1.2:1 500-1000 MHz 1.5:1 1000-2000 MHz	BNC, N, TNC, 7/16 or SMA
50FH-XXX-5	DC-1000 MHz	21 thru 60 dB in any 1 dB increment	+/- .5 dB or 2% DC-500 MHz +/- 4% 500-1000 MHz	1.2:1	BNC, N, TNC, 7/16 or SMA
50FH-XXX-10	DC-2000 MHz	1 thru 20 dB in any 1 dB increment	+/- .2 dB DC-500 MHz +/- .5 dB 500-1000 MHz +/- .8 dB 1000-2000 MHz	1.1:1 DC-500 MHz 1.2:1 500-1000 MHz 1.5:1 1000-2000 MHz	BNC, N, TNC, 7/16 or SMA

* (XXX) insert attenuation value

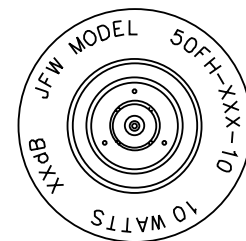
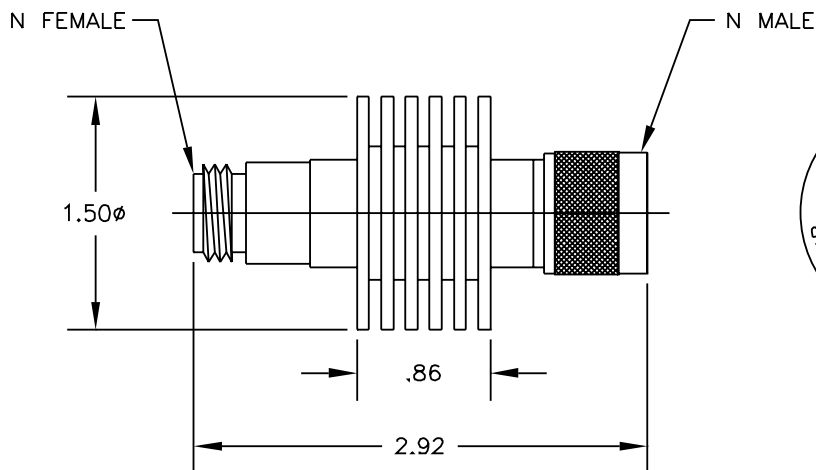
Model	Impedance	Input Power Average	Peak Power	Operating Temperature
50FH-XXX-5	50 Ohms	5 Watts	2000 Watts	-55° C to +100° C
50FH-XXX-10	50 Ohms	10 Watts	2000 Watts	-55° C to +100° C

50FH-XXX-5



dB VALUE	DIM. A
0-30 dB	2.92
31-60 dB	4.04

50FH-XXX-10



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High Power Fixed Attenuators FHC Series

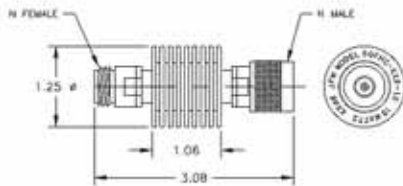
Model	Average Input Power	Impedance	RF Connectors
50FHC-XXX-10	10 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA or TNC
50FHC-XXX-15	15 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA, TNC or 7/16
50FHC-XXX-20	20 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA, TNC or 7/16
50FHC-XXX-25	25 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA, TNC or 7/16
50FHC-XXX-40	40 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA, TNC or 7/16
50FHC-XXX-50	50 Watts @ +25° C derate to 1/2 Power @ +70° C	50 Ohms	N, BNC, SMA, TNC or 7/16

* (XXX) insert attenuation value

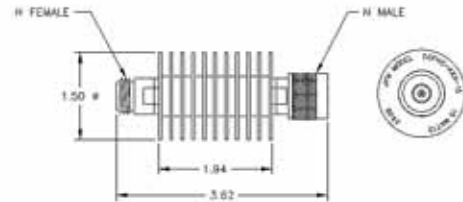
Common Specifications

Attenuation Values*	Frequency Range	Attenuation Accuracy	VSWR	Peak Power	Operating Temperature
1 thru 30 dB in any 1 dB increment	DC-4000 MHz	DC-1000 MHz +/- .25 dB 1-20 dB +/- .5 dB 21-30 dB 1000-4000 MHz +/- .5 dB 1-20 dB +/- .75 dB 21-30 dB	1.15:1 DC-1000 MHz 1.35:1 1000-4000 MHz	1000 Watts	-55° C to +100° C
31 thru 60 dB in any 1 dB increment	DC-3000 MHz	+/- 2% DC-2000 MHz +/- 3% 2000-3000 MHz	1.15:1 DC-1000 MHz 1.35:1 1000-3000 MHz	1000 Watts	-55° C to +100° C

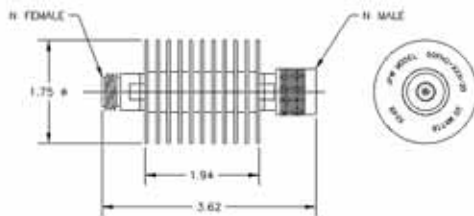
50FHC-XXX-10



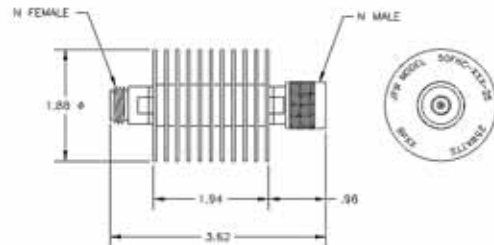
50FHC-XXX-15



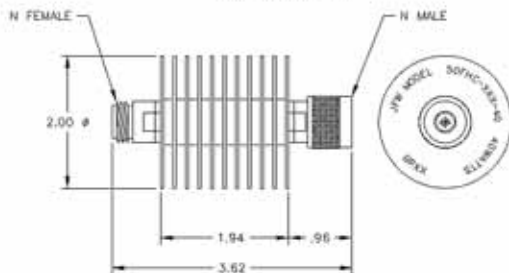
50FHC-XXX-20



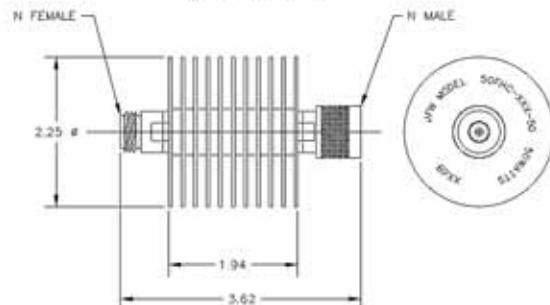
50FHC-XXX-25



50FHC-XXX-40



50FHC-XXX-50



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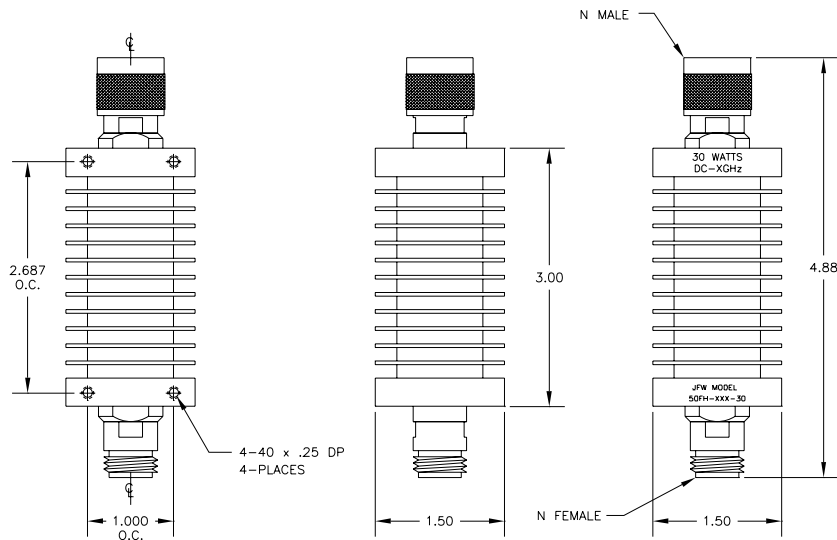
30 & 50 Watt Fixed Attenuators FH Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FH-XXX-30	DC-2000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.3:1 DC-1000 MHz 1.4:1 1000-2000 MHz	BNC,N, TNC, 7/16 or SMA
50FH-XXX-30-3	DC-3000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.4:1	BNC,N, TNC, 7/16 or SMA
50FH-XXX-50	DC-2000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.3:1 DC-1000 MHz 1.4:1 1000-2000 MHz	BNC, N, TNC, 7/16 or SMA
50FH-XXX-50-3	DC-3000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.4:1	BNC, N, TNC, 7/16 or SMA

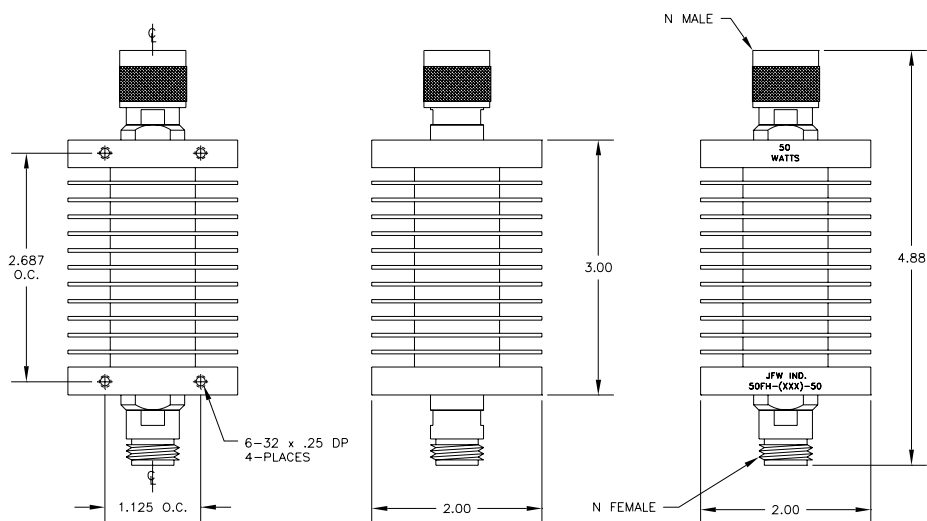
* (XXX) insert attenuation value

Model	Impedance	Input Power	Peak Power	Operating Temperature
50FH-XXX-30 and -30-3	50 Ohms	30 Watts	1000 Watts	-55° C to +100° C
50FH-XXX-50 and -50-3	50 Ohms	50 Watts	1000 Watts	-55° C to +100° C

50FH-XXX-30



50FH-XXX-50



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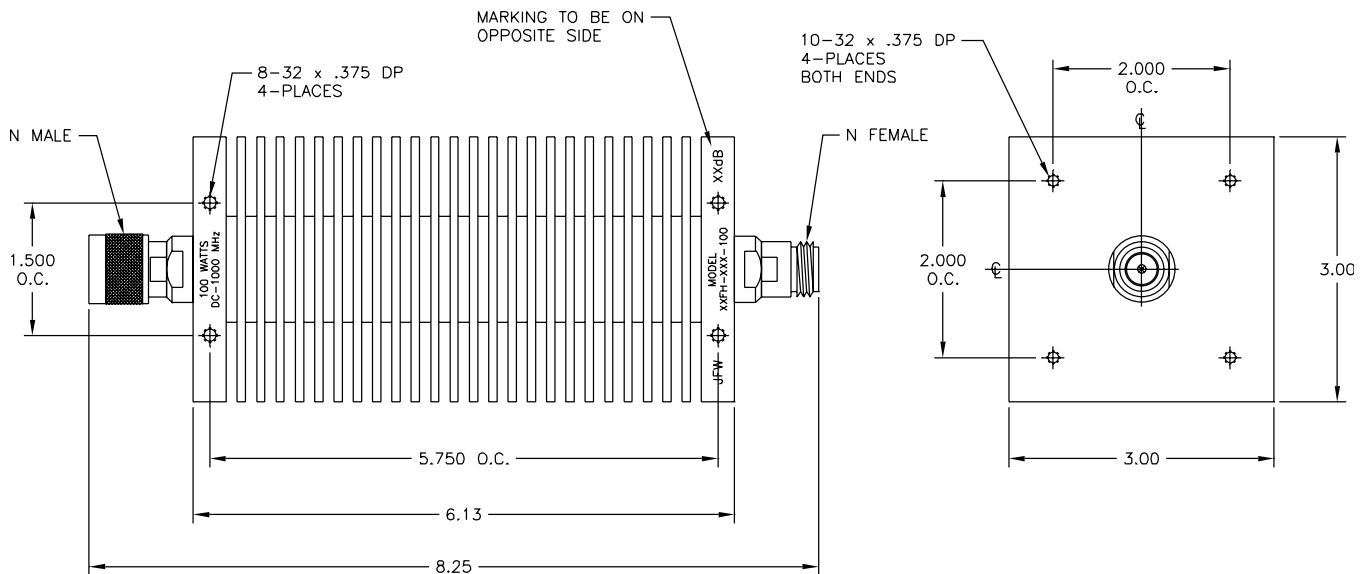
100 Watt Fixed Attenuators FH Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FH-XXX-100	DC-1000 MHz	1 thru 50 dB in any 1 dB increment	+/- .3 dB	1.2:1	SMA, BNC, N, TNC or 7/16
50FH-XXX-100-2	DC-2000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.3:1 DC-1000 MHz 1.4:1 1000-2000 MHz	SMA, BNC, N, TNC or 7/16
50FH-XXX-100-3	DC-3000 MHz	1 thru 50 dB in any 1 dB increment	+/- .5 dB	1.4:1	SMA, BNC, N, TNC or 7/16

* (XXX) insert attenuation value

Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
50 Ohms	100 Watts @ +25° C derate to 50 Watts @ +85° C	1000 Watts	-55° C to +100° C



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100 & 200 Watt Fixed Attenuators

FHAO Series

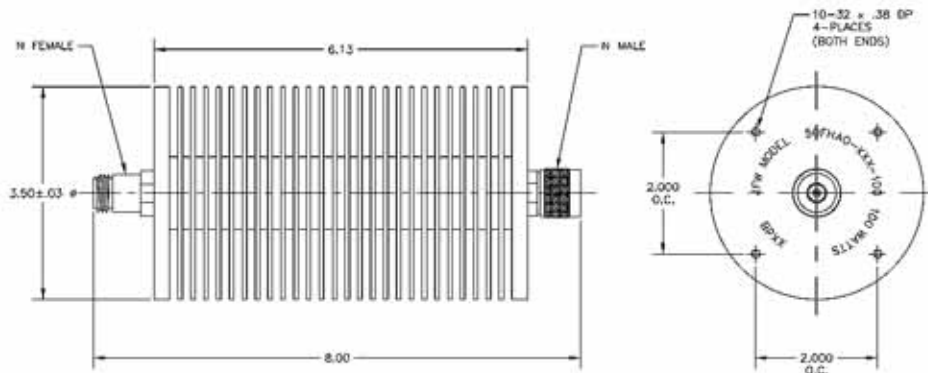
Model	Frequency Range	Attenuation Values [±]	Attenuation Accuracy	VSWR Maximum	Input Power Average
50FHAO-XXX-100	DC-3000 MHz	3, 6, 10, 14, 20, 30, 40 or 50 dB	+/- .3 dB DC-2000 MHz +/- .5 dB 2000-3000 MHz	1.2:1 DC-2000 MHz 1.3:1 2000-3000 MHz	100 Watts
50FHAO-XXX-200	DC-3000 MHz	3, 6, 10, 20, 30 or 40 dB	+/- .3 dB DC-2000 MHz +/- .5 dB 2000-3000 MHz	1.2:1 DC-2000 MHz 1.3:1 2000-3000 MHz	200 Watts

* (XXX) insert attenuation value
(other attenuation values available upon request)

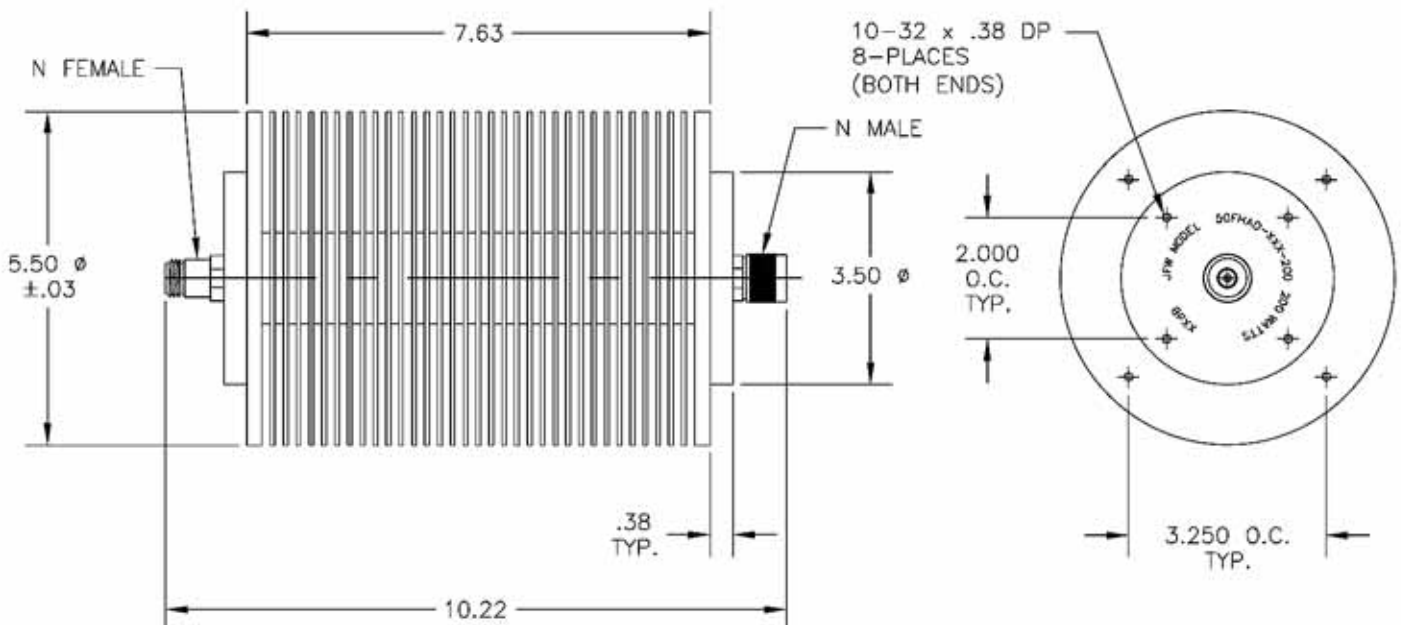
Common Specifications

Impedance	Peak Power	Operating Temperature	RF Connectors
50 Ohms	1000 Watts	-55° C to +100° C	N or 7/16

50FHAO-XXX-100



50FHAO-XXX-200



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300 Watt Fixed Attenuators FH Series

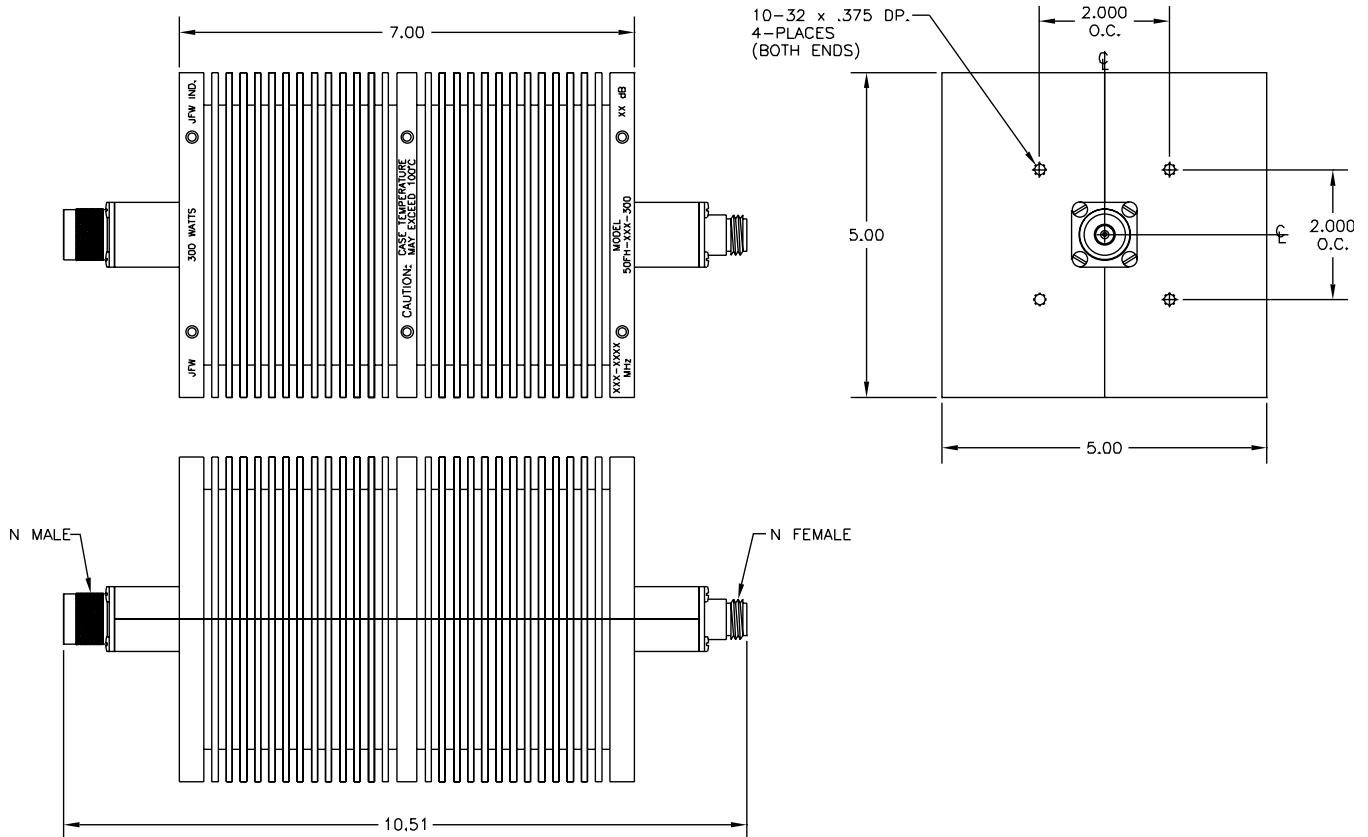
High Peak Power

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FH-XXX-300	DC-1000 MHz	1 thru 30 dB in any 1 dB increment	+/- .5 dB or 2%	1.3:1	BNC, N, TNC or 7/16
50FH-XXX-300	DC-1000 MHz	31 thru 50 dB in any 1 dB increment	+/- .2 dB or 1% DC-250 MHz +/- .3 dB or 2% 250-500 MHz +/- .5 dB or 3% 500-1000 MHz	1.1:1 DC-250 MHz 1.15:1 250-500 MHz 1.25:1 500-1000 MHz	BNC, N, TNC or 7/16
50FH-XXX-300-2	DC-2000 MHz	3 thru 40 dB in any 1 dB increment	+/- .5 dB or 3%	1.4:1	N, TNC or 7/16

* (XXX) insert attenuation value

Common Specifications

Impedance	Input Power Average	Peak Power	Operating Temperature
50 Ohms	300 Watts @ +25° C derate to 75 Watts @ +85° C	2000 Watts	-55° C to +100° C



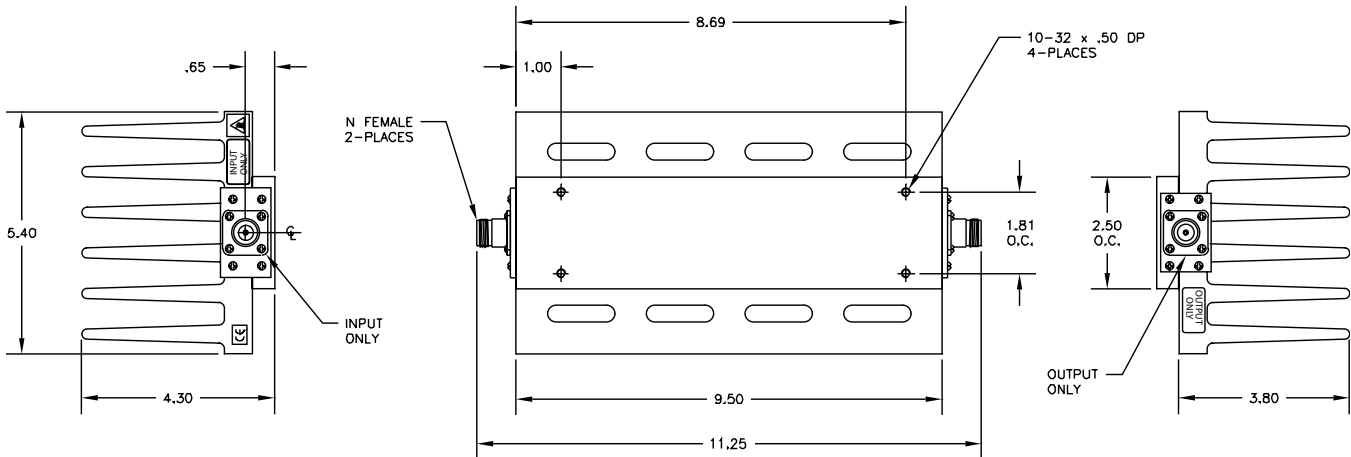
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500 Watt Fixed Attenuators FHAM Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FHAM-XX-500	DC - 2500 MHz	3, 6, 10, 20, or 30 dB	3dB +/- .3 dB DC-1000 MHz +/- .5 dB 1000-2500 MHz 6dB +/- .4 dB DC-1000 MHz +/- .6 dB 1000-2500 MHz 10dB +/- .4 dB DC-1000 MHz +/- .8 dB 1000-2500 MHz 20dB +/- .5 dB DC-1000 MHz +/- 1.0 dB 1000-2500 MHz 30dB +/- .8 dB DC-1000 MHz +/- 1.3 dB 1000-2500 MHz	1.10:1 DC-1000 MHz 1.25:1 1000-2500 MHz	N, TNC or 7/16

* (XXX) insert attenuation value

Model	Impedance	Input Power Average	Operating Position	Operating Temperature
50FHAM-XXX-500	50 Ohms	500 Watts @ +25° C derate to 50 Watts @ +125° C	any position except mounting plate up	-25° to +125° C



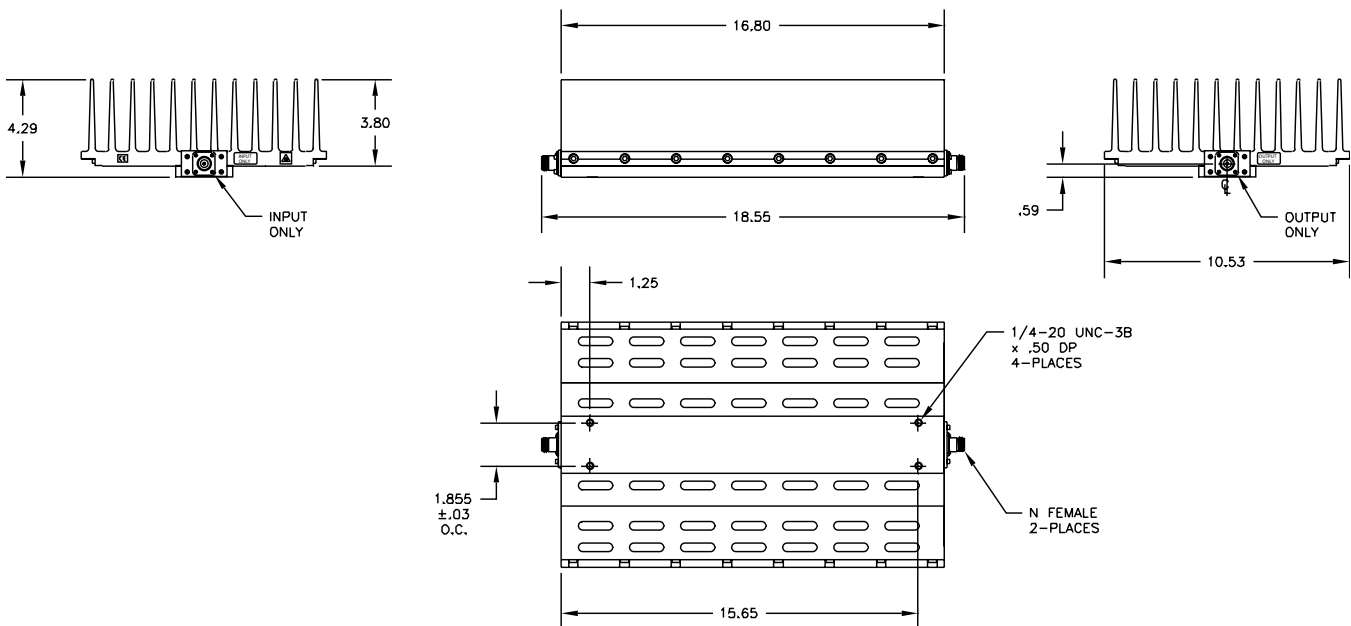
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1000 Watt Fixed Attenuators FHAM Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50FHAM-XX-1000	DC - 2400 MHz	3, 6, 10, 20, or 30 dB	3dB +/- .5 dB DC-1000 MHz +/- 1.1 dB 1000-2400 MHz 6dB +/- .5 dB DC-1000 MHz +/- 1.1 dB 1000-2400 MHz 10dB +/- .6 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz 20dB +/- .7 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz 30dB +/- .8 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz	1.10:1 DC-1000 MHz 1.25:1 1000-2400 MHz	N, TNC or 7/16

* (XXX) insert attenuation value

Model	Impedance	Input Power Average	Operating Position	Operating Temperature
50FHAM-XX-1000	50 Ohms	1000 Watts @ +25° C derate to 50 Watts @ +125° C	any position except mounting plate up	0° C to +125° C



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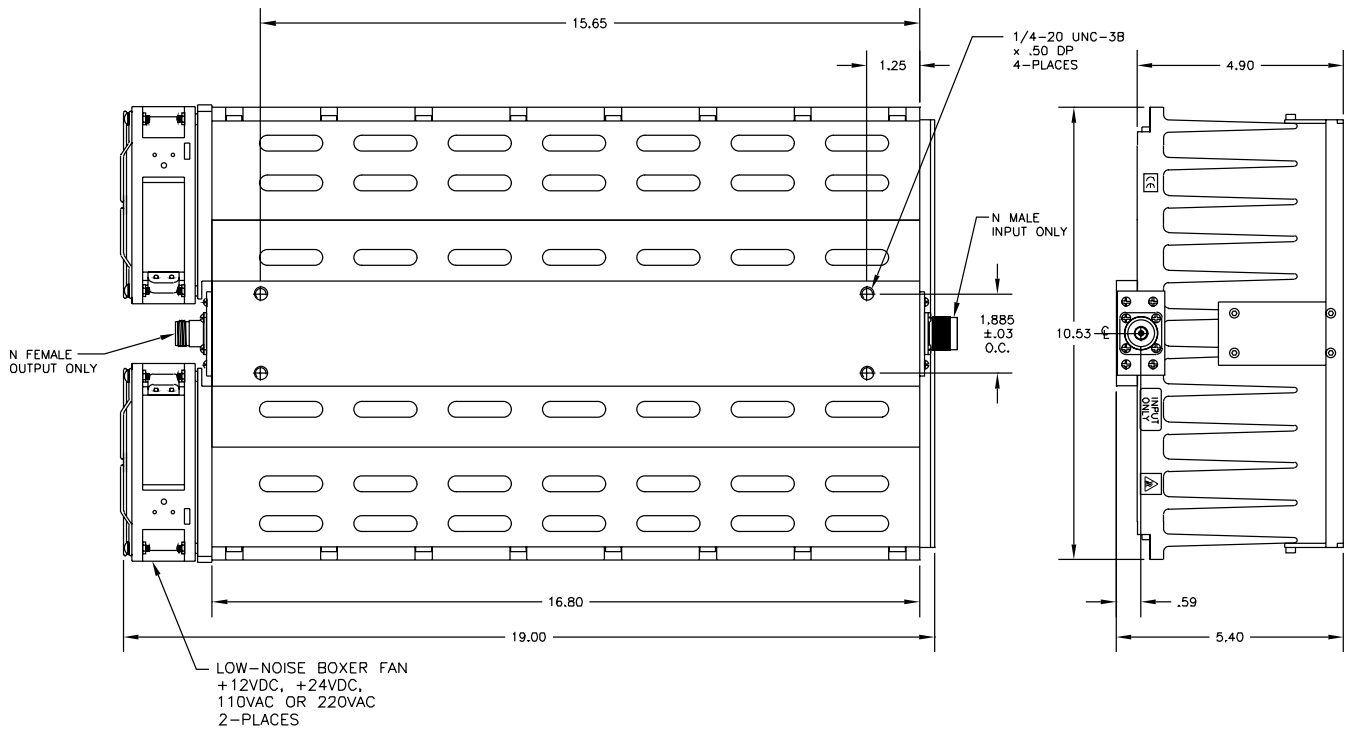
1500 Watt Fixed Attenuators FHAM Series

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	Cooling Fan Voltage	RF Connectors
50FHAM-XX-X-1500	DC - 2400 MHz	3, 6, 10, 20, or 30 dB	3dB +/- .5 dB DC-1000 MHz +/- 1.1 dB 1000-2400 MHz 6dB +/- .5 dB DC-1000 MHz +/- 1.1 dB 1000-2400 MHz 10dB +/- .6 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz 20dB +/- .7 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz 30dB +/- .8 dB DC-1000 MHz +/- 1.5 dB 1000-2400 MHz	1.10:1 DC-1000 MHz 1.25:1 1000-2400 MHz	12 Vdc - A 24 Vdc - B 110 VAC - C 220 VAC - D	N, TNC or 7/16

* (XXX) insert attenuation value.

** (X) Example Model: 50FHAM-03-A-1500N is a 3 dB, N male to N female, 1500 Watt attenuator with cooling fans that run off of a 12 Vdc voltage supply.

Model	Impedance	Input Power Average	Operating Position	Operating Temperature
50FHAM-XX-X-1500	50 Ohms	1500 Watts @ +25° C derate to 50 Watts @ +125° C	any position except mounting plate up	0° C to +125° C



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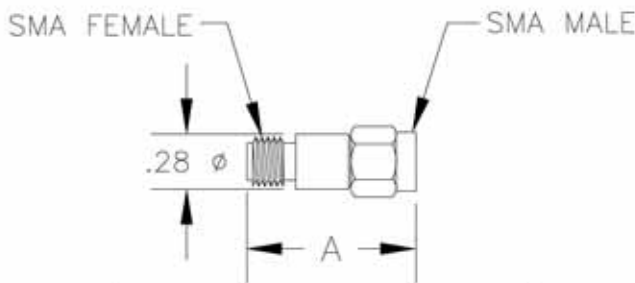
High Frequency Fixed Attenuators

Model	Frequency Range	Attenuation Values *	Attenuation Accuracy	VSWR Maximum	RF Connectors
50HF-XXX	DC-18 GHz	0-10, 12, 15, 20 & 30 dB	+/- .3 dB 1-6 dB +/- .5 dB 7-20 dB +/- .75 dB 21-30 dB	1.2:1 DC-4 GHz 1.25:1 4-8 GHz 1.3:1 8-12.4 GHz 1.4:1 12.4-18 GHz	N or SMA
50HF-XXX-5	DC-18 GHz	0-10, 12, 15, 20 & 30 dB	+/- .3 dB 1-6 dB +/- .5 dB 7-20 dB +/- .75 dB 21-30 dB	1.2:1 DC-4 GHz 1.25:1 4-8 GHz 1.3:1 8-12.4 GHz 1.4:1 12.4-18 GHz	N or SMA

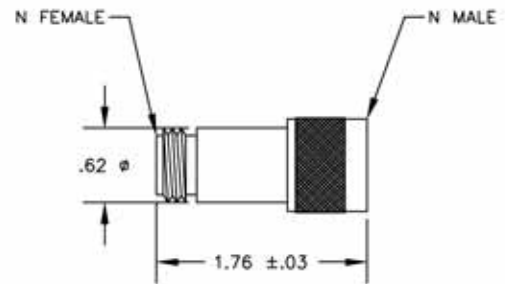
* (XXX) insert attenuation value - Consult Factory for other dB Values

Model	Impedance	Input Power Average	Peak Power	Operating Temperature
50HF-XXX	50 Ohms	2 Watts @ +25° C derate to .5 Watt @ +125° C	250 Watts	-65° C to +125° C
50HF-XXX-5	50 Ohms	5 Watts @ +25° C derate to 1 Watt @ +125° C	250 Watts	-65° C to +125° C

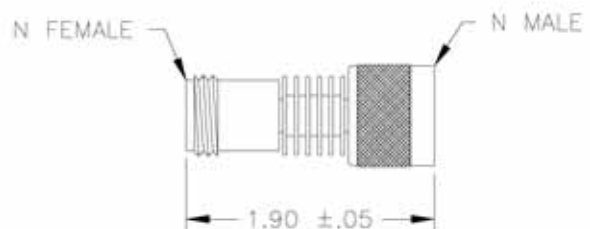
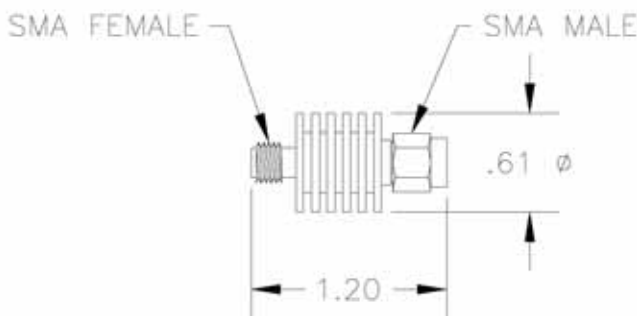
50HF-XXX



dB VALUE	DIM. A
1-12dB	.86 ±.03
13-30dB	.99 ±.03



50HF-XXX-5



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Fixed Attenuator Kits

Model	Frequency Range	Impedance	Attenuators and Accessories	RF Connectors	Calibration Frequencies DC-18 GHz Models Only
50KFA-005	DC-2200 MHz	50 Ohms	one each: 1,2,3,6,10 and 20 dB Fixed Attenuators one each: 50 Ohm and 75 Ohm Feedthru Terminations one each: Impedance Matching Pad one each: N male to BNC female adapter one each: N female to BNC male adapter	BNC male/female	
50KFA-006	DC-2200 MHz	50 Ohms	one each: 1,2,3,6,10 and 20 dB Fixed Attenuators one each: BNC female to SMA male adapter one each: BNC male to SMA female adapter one each: N female to SMA male adapter	SMA male/female	
50KFA-074	DC-2200 MHz	50 Ohms	one each: 3,6,10 and 20 dB one each: male termination	BNC, N or SMA male/female	
50KFA-008	DC-18 GHz	50 Ohms	one each: 50HF-003 N one each: 50HF-006 N one each: 50HF-010 N one each: 50HF-020 N	N male/female	DC, 4 GHz, 8 GHz, 12.4 GHz and 18 GHz
50KFA-014	DC-18 GHz	50 Ohms	one each: 50HF-003 SMA one each: 50HF-006 SMA one each: 50HF-010 SMA one each: 50HF-020 SMA	SMA male/female	DC, 4 GHz, 8 GHz, 12.4 GHz and 18 GHz



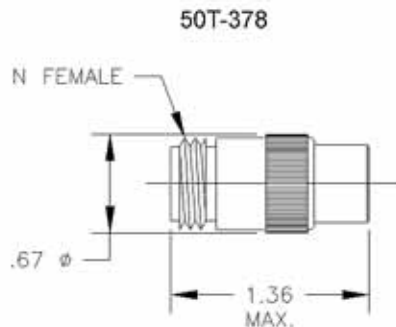
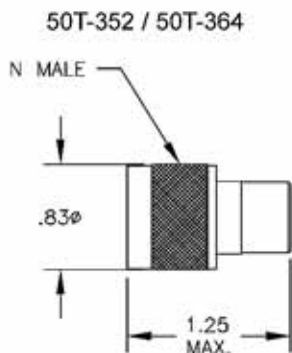
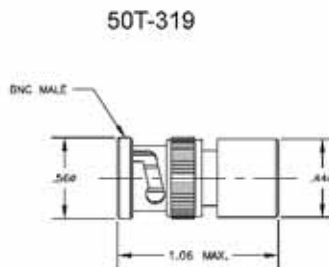
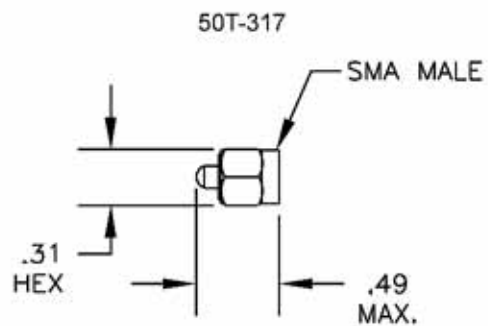
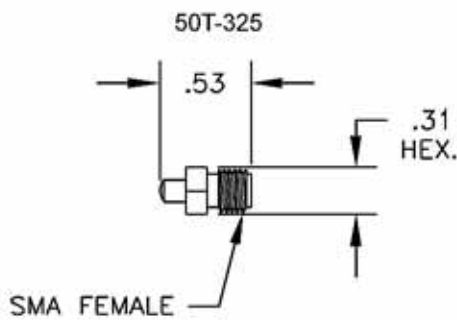
JFW designs Attenuator Kits for a wide range of applications. Kits can include: 75 Ohm Attenuators, Terminations, DC Blocks, Adapters and Mismatches. Please contact us for a cost effective solution for your requirement.

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1 Watt Terminations



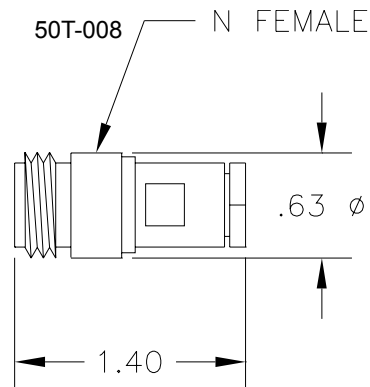
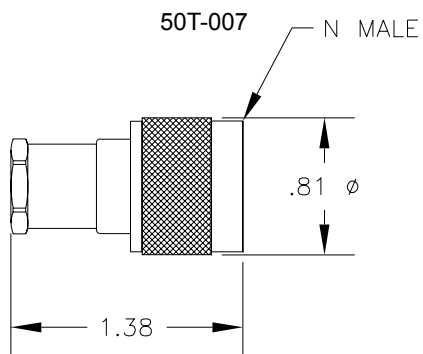
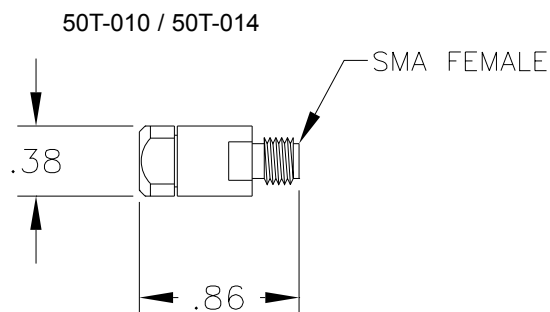
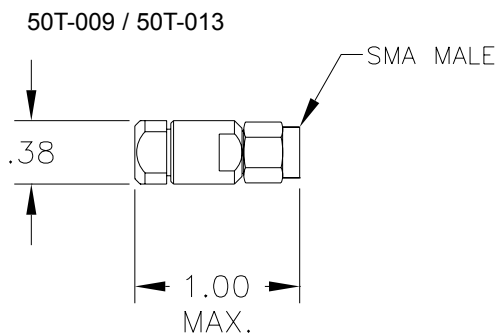
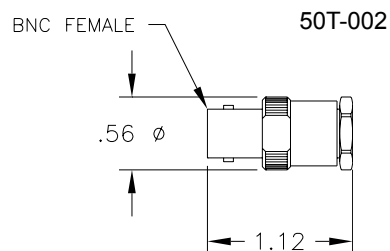
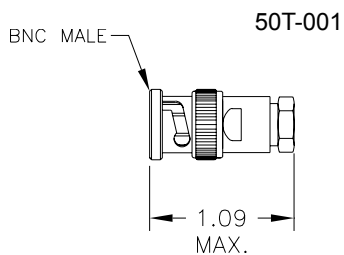
Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-325	50 Ohms	DC-2500 MHz	1.1:1 DC-2000 MHz 1.2:1 2000-2500 MHz	1 Watt @ +25° C derate to .25 Watts @ +70° C	1000 Watts (1 microsecond)	-20° C to +85° C	SMA female
50T-317	50 Ohms	DC-2500 MHz	1.2:1 DC-2000 MHz 1.3:1 2000-2500 MHz	1 Watt @ +25° C derate to .25 Watts @ +70° C	1000 Watts (1 microsecond)	-20° C to +85° C	SMA male
50T-319	50 Ohms	DC-2200 MHz	1.2:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	BNC male
50T-364	50 Ohms	DC-2200 MHz	1.05:1 DC-500 1.1:1 500-1000 MHz 1.2:1 1000-2200 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N male
50T-378	50 Ohms	DC-2200 MHz	1.05:1 DC-500 1.1:1 500-1000 MHz 1.2:1 1000-2200 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N female
50T-352	50 Ohms	DC-6000 MHz	1.05:1 DC-1000 MHz 1.1:1 1000-2000 MHz 1.2:1 2000-4000 MHz 1.25:1 4000-6000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N male



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1 Watt Terminations

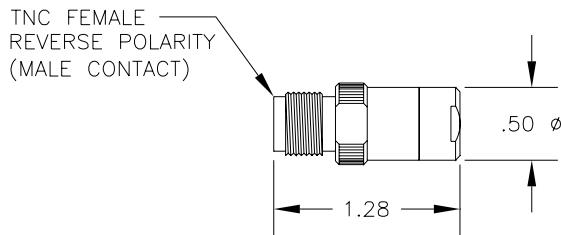
Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-001	50 Ohms	DC-2000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	BNC male
50T-002	50 Ohms	DC-2000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	BNC female
50T-013	50 Ohms	DC-2000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	SMA male
50T-014	50 Ohms	DC-2000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	SMA female
50T-007	50 Ohms	DC-8000 MHz	1.1:1 DC-4000 MHz 1.25:1 4000-8000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N male
50T-008	50 Ohms	DC-8000 MHz	1.1:1 DC-4000 MHz 1.25:1 4000-8000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N female
50T-009	50 Ohms	DC-8000 MHz	1.1:1 DC-4000 MHz 1.25:1 4000-8000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	SMA male
50T-010	50 Ohms	DC-8000 MHz	1.1:1 DC-4000 MHz 1.25:1 4000-8000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	SMA female



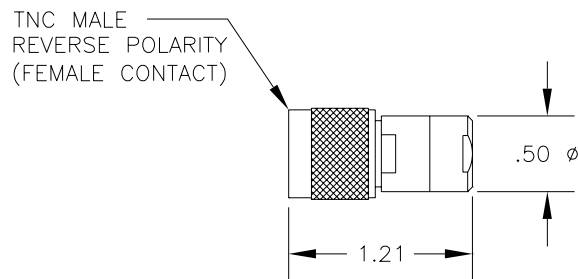
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2 Watt Terminations

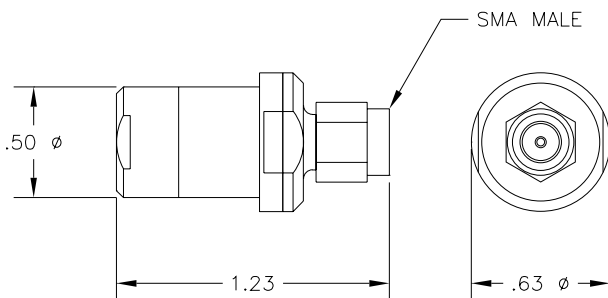
Model	Impedance	Frequency Range	VSWR Maximum	Input Power Average	Peak Power	Operating Temperature	RF Connectors
50T-300	50 Ohms	DC-3000 MHz	1.1:1 DC-1500 MHz 1.2:1 1500-1300 MHz	2 Watts	1000 Watts (1 microsecond)	-55° C to +125° C	TNC Reverse Polarity
50T-261	50 Ohms	DC-2000 MHz	1.1:1	2 Watts	1000 Watts (1 microsecond)	-20° C to +100° C	7/16 male or female
50T-363	50 Ohms	DC-4000 MHz	1.1:1 DC-2000 MHz 1.2:1 2000-4000 MHz	2 Watts	1000 Watts (1 microsecond)	-20° C to +100° C	7/16 male or female
50T-376	50 Ohms	DC-4000 MHz	1.1:1	2 Watts	1000 Watts (1 microsecond)	-20° C to +85° C	SMA, N, TNC, BNC male or female



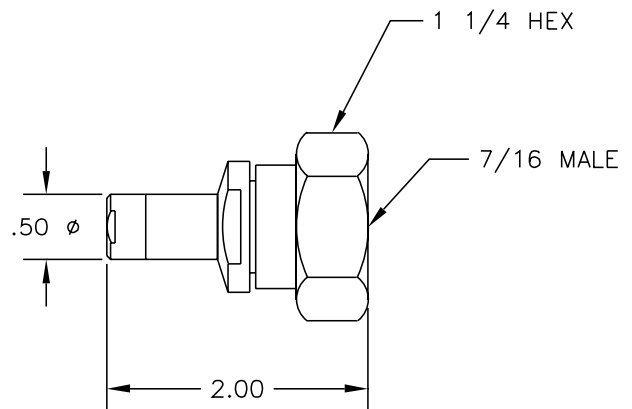
50T-300



50T-376



50T-261 / 50T-363

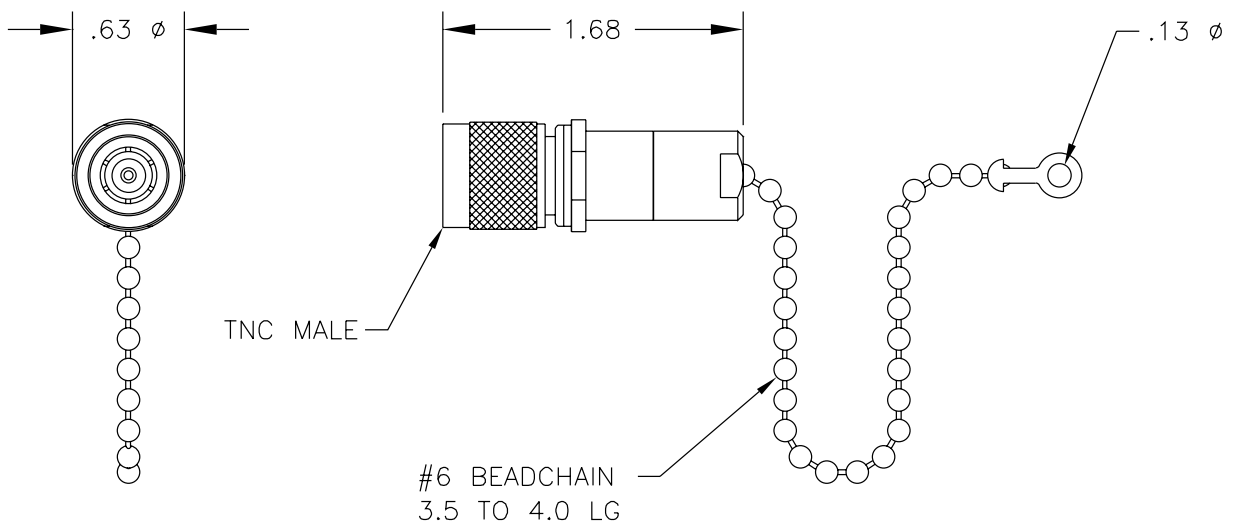
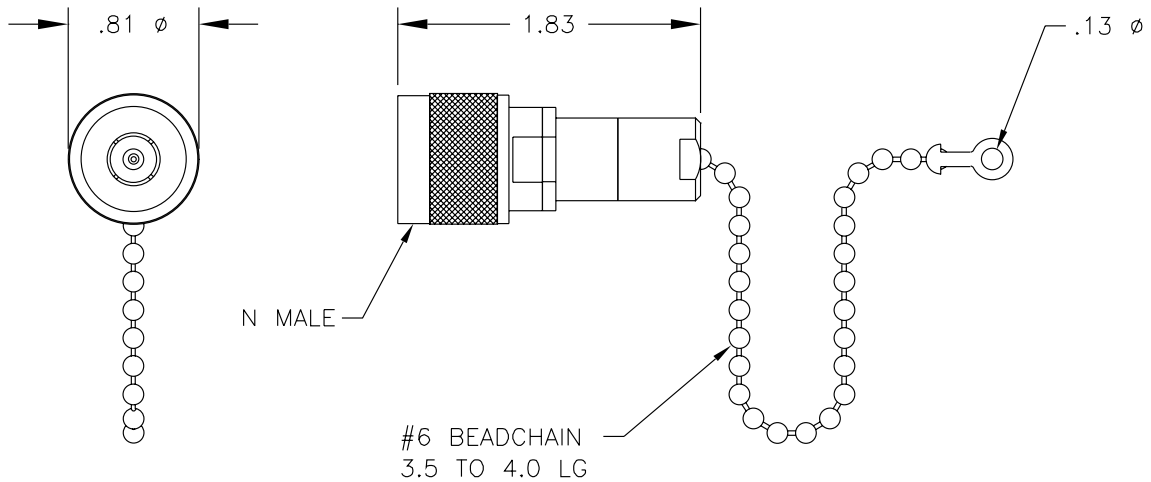


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2 Watt Terminations with Beadchain

Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-142	50 Ohms	DC-8000 MHz	1.1:1 DC-1000 MHz 1.2:1 1000-4000 MHz 1.35:1 4000-8000 MHz	2 Watts @ +25° C	100 Watts (1 microsecond)	-20° C to +100° C	N male with Beadchain
50T-143	50 Ohms	DC-8000 MHz	1.1:1 DC-1000 MHz 1.2:1 1000-4000 MHz 1.35:1 4000-8000 MHz	2 Watts @ +25° C	100 Watts (1 microsecond)	-20° C to +100° C	TNC male with Beadchain

* also available without the beadchain

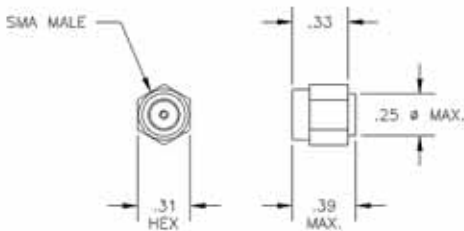


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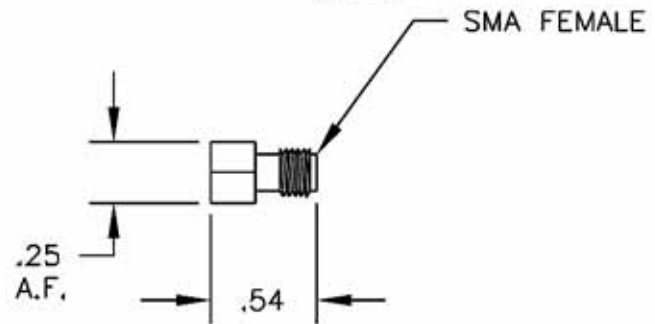
High Frequency Terminations

Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-026	50 Ohms	DC-18 GHz	1.05:1 DC-4 GHz 1.1:1 4-12 GHz 1.25:1 12-18 GHz	1 Watt @ +25° C	1000 Watts (5 microseconds)	-65° C to +125° C	SMA male
50T-129	50 Ohms	DC-18 GHz	1.05:1 DC-4 GHz 1.1:1 4-8 GHz 1.15:1 8-12.4 GHz 1.2:1 12.4-18 GHz	1 Watt @ +25° C	1000 Watts (5 microseconds)	-65° C to +125° C	SMA female
50T-199	50 Ohms	DC-18 GHz	1.15:1 DC-8 GHz 1.2:1 8-12.4 GHz 1.3:1 12.4-18 GHz	2 Watts @ +25° C derated linearly to 1 Watt @ +125° C	2500 Watts (5 microseconds)	-65° C to +125° C	N male or female
50T-128	50 Ohms	DC-18 GHz	1.1:1 DC-4 GHz 1.15:1 4-8 GHz 1.2:1 8-12.4 GHz 1.25:1 12.4-18 GHz	5 Watts @ +25° C derated linearly to 1 Watt @ +125° C	250 Watts (5 microseconds)	-55° C to +125° C	SMA male or female
50T-191	50 Ohms	DC-18 GHz	1.1:1 DC-4 GHz 1.15:1 4-8 GHz 1.2:1 8-12.4 GHz 1.25:1 12.4-18 GHz	5 Watts @ +25° C derated linearly to 1 Watt @ +125° C	250 Watts (5 microseconds)	-65° C to +125° C	N male or female

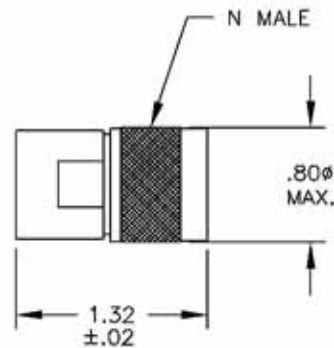
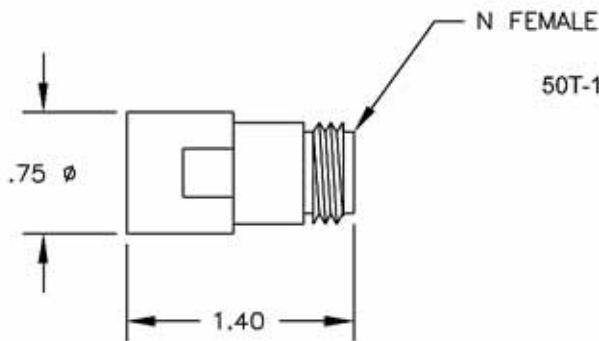
50T-026



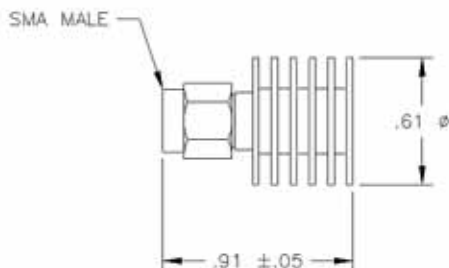
50T-129



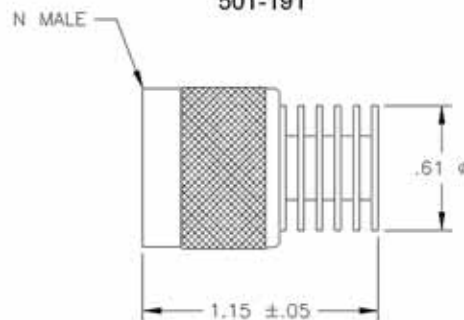
50T-199



50T-128



50T-191

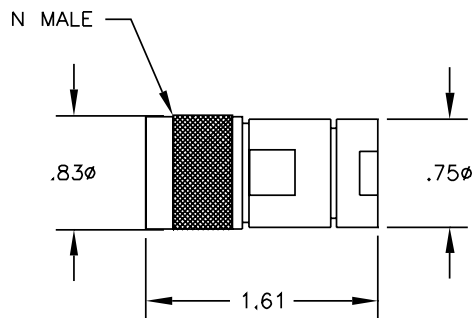


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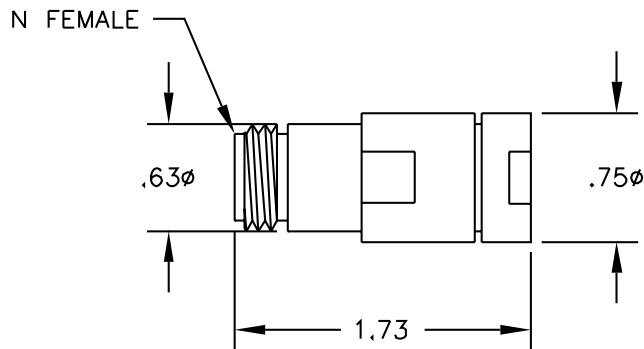
5 Watt Terminations

Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-052	50 Ohms	DC-3000 MHz	1.1:1 DC-1000 MHz 1.15:1 1000-2000 MHz 1.2:1 2000-3000 MHz	5 Watts @ +25° C	2000 Watts (1 microsecond)	-40° C to +85° C	N or 7/16 male
50T-053	50 Ohms	DC-3000 MHz	1.1:1 DC-1000 MHz 1.15:1 1000-2000 MHz 1.2:1 2000-3000 MHz	5 Watts @ +25° C	2000 Watts (1 microsecond)	-40° C to +85° C	N or 7/16 female
50T-410	50 Ohms	DC-4000 MHz	1.15:1	5 Watts @ +25° C	1000 Watts (1 microsecond)	-40° C to +85° C	SMA, BNC, N or TNC

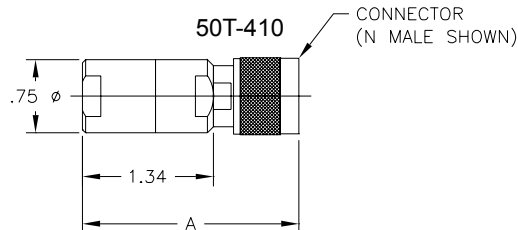
50T-052



50T-053



50T-410

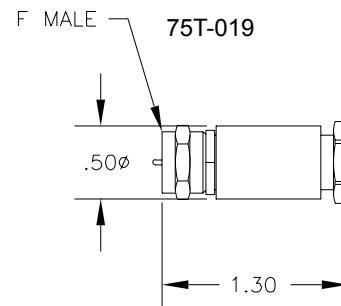
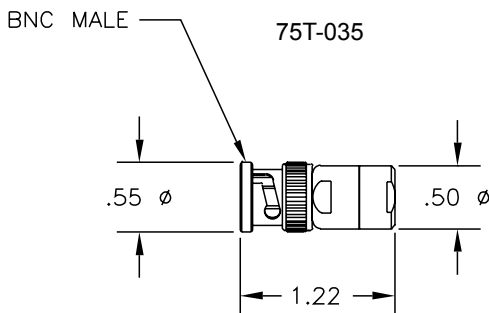
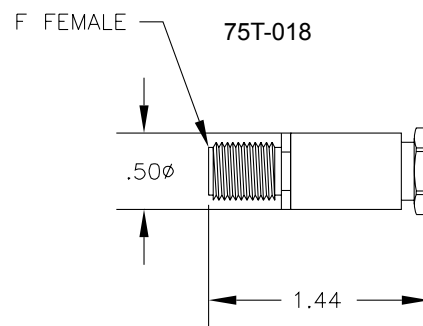
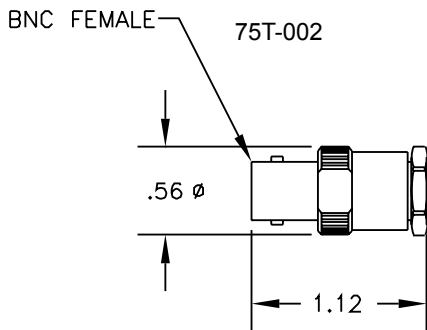
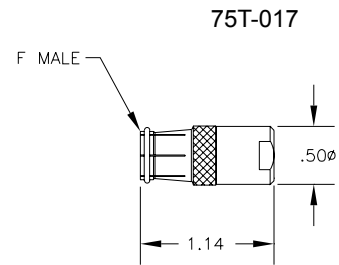
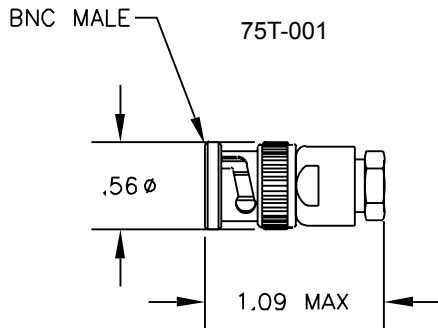


CONNECTOR	SMA M.	SMA F.	BNC M.	BNC F.	TNC M.	TNC F.	N M.	N F.
DIM: A	1.82	1.78	2.06	1.86	2.06	1.86	2.22	1.99

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75 Ohm Terminations

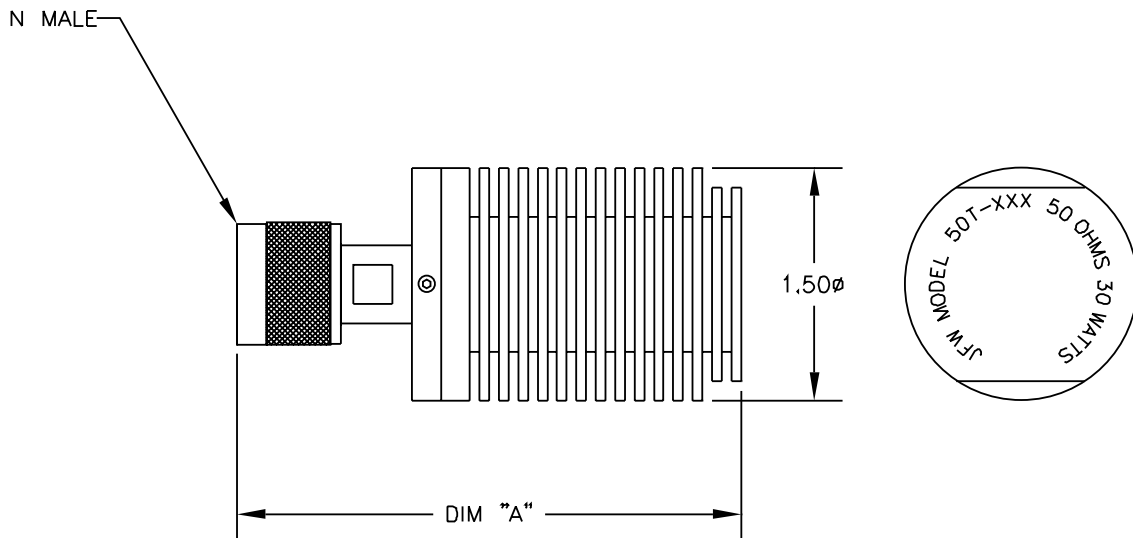
Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
75T-001	75 Ohms	DC-1000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	BNC male
75T-002	75 Ohms	DC-1000 MHz	1.1:1	1 Watt @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	BNC female
75T-035	75 Ohms	DC-2000 MHz	1.15:1 to 1000 MHz 1.25:1 to 2000 MHz	2 Watts @ +25° C	1000 Watts (1 microsecond)	-20° C to +100° C	N or BNC
75T-017	75 Ohms	DC-2000 MHz	1.06:1 DC-1500 MHz 1.12:1 1500-2000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-55° C to +85° C	F male Push-On with .024" diameter center conductor
75T-018	75 Ohms	DC-2000 MHz	1.06:1 DC-1500 MHz 1.12:1 1500-2000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-55° C to +85° C	F female
75T-019	75 Ohms	DC-2000 MHz	1.06:1 DC-1500 MHz 1.12:1 1500-2000 MHz	1 Watt @ +25° C	1000 Watts (1 microsecond)	-55° C to +85° C	F male Thread-On with .024" diameter center conductor



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30 Watt Terminations

Model	Impedance	Frequency Range	VSWR Maximum	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-054	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	N male
50T-055	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	N female
50T-056	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	BNC male
50T-057	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	BNC female
50T-058	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	TNC male
50T-059	50 Ohms	DC-1200 MHz	1.06:1 DC-250 MHz 1.1:1 250-500 MHz 1.2:1 500-1200 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	TNC female
50T-116	50 Ohms	DC-3500 MHz	1.1:1 DC-500 MHz 1.2:1 500-2000 MHz 1.3:1 2000-3500 MHz	30 Watts @ +25° C	3000 Watts (1 microsecond)	-55° C to +85° C	N male or female



MODEL #	DIM A
50T-054 N M	3.25
50T-055 N FE	3.20
50T-056 BNC M	2.87
50T-057 BNC FE	2.95
50T-058 TNC M	2.89
50T-059 TNC FE	2.95
50T-116 N FE	3.20
50T-116 N M	3.25

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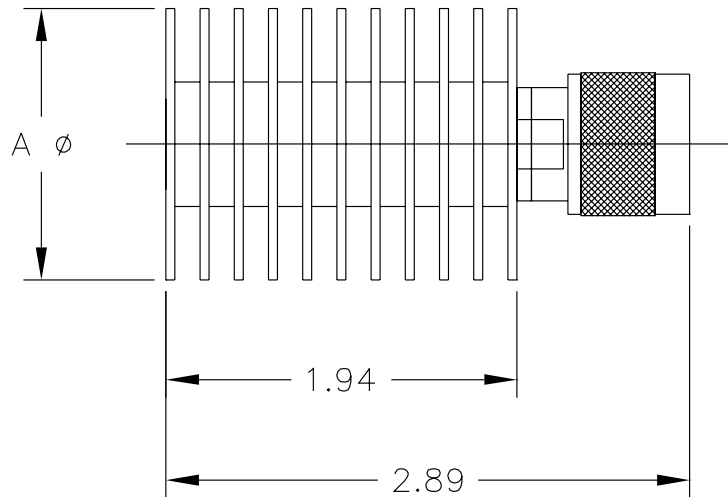
15-50 Watt Terminations and Mismatches

Model	Input Power Average**	Frequency Range	VSWR Accuracy	Impedance	Peak Power	Operating Temperature	RF Connectors
50T-359-X.X*	15 Watts @ 25° C	DC-3 GHz	1.15:1 max (1.0:1) +/- 10% of nominal (all other values)	50 Ohms reference	1000 Watts (1 microsecond)	-55° C to +100° C	N, TNC, BNC SMA or 7/16 male of female
50T-358-X.X*	20 Watts @ 25° C	DC-3 GHz	1.15:1 max (1.0:1) +/- 10% of nominal (all other values)	50 Ohms reference	1000 Watts (1 microsecond)	-55° C to +100° C	N, TNC, BNC SMA or 7/16 male of female
50T-357-X.X*	40 Watts @ 25° C	DC-3 GHz	1.15:1 max (1.0:1) +/- 10% of nominal (all other values)	50 Ohms reference	1000 Watts (1 microsecond)	-55° C to +100° C	N, TNC, BNC SMA or 7/16 male of female
50T-334-X.X*	50 Watts @ 25° C	DC-3 GHz	1.15:1 max (1.0:1) +/- 10% of nominal (all other values)	50 Ohms reference	1000 Watts (1 microsecond)	-55° C to +100° C	N, TNC, BNC SMA or 7/16 male of female

** Derate to 1/2 rated power @ +70° C

* VSWR Available: 1.0:1 through 5.0:1 in any 0.1 increment (1.0:1 = Termination)
 (Termination = 50T-334-1.0)
 (1.5:1 Mismatch = 50T-334-1.5)
 (5.0:1 Mismatch = 50T-334-5.0)

MODEL #	DIM: A
50T-334-XX	2.25
50T-357-XX	2.00
50T-358-XX	1.75
50T-359-XX	1.50

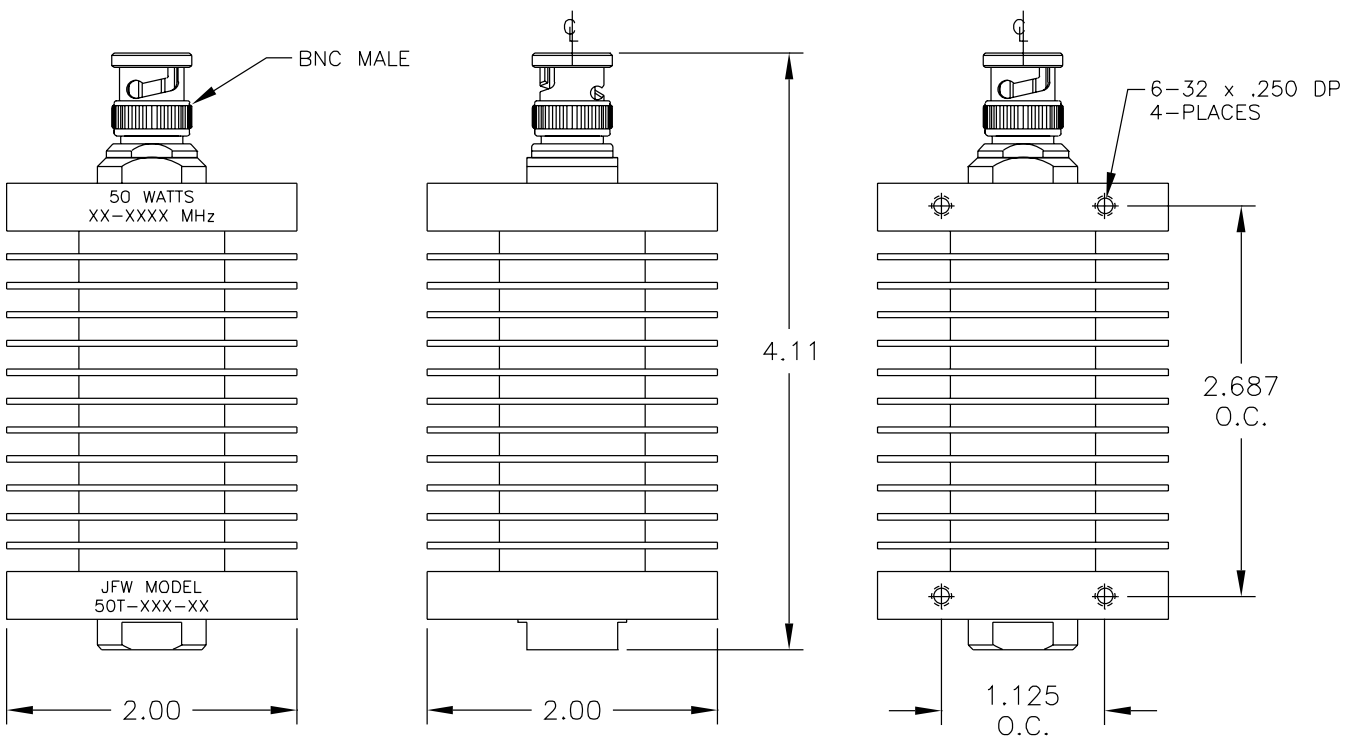


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50 Watt Terminations and Mismatches

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-034-XXX*	referenced to 50 Ohms	DC-1000 MHz	+/- 5%	50 Watts average @ +25° C	500 Watts	-55° C to +100° C	BNC, N, TNC, SMA or 7/16 (male or female)

* VSWR Available: 1.0:1, 1.1:1, 1.2:1, 1.5:1, 2.0:1, 2.5:1, 3.0:1, 3.5:1, 4.0:1, 4.5:1, 5.0:1 and 8.0:1 (other VSWR available upon request)

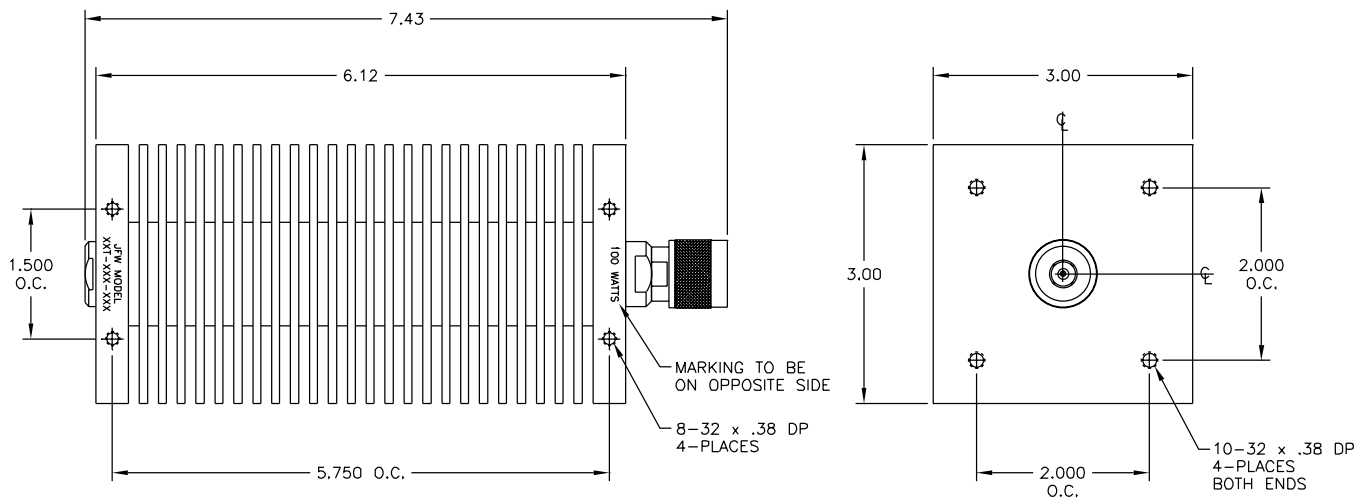


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100 Watt Terminations and Mismatches

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-032-XXX*	referenced to 50 Ohms	DC-1000 MHz	+/- 5%	100 Watts average @ +25° C derate to 50 Watts @ +100° C	500 Watts	-55° C to +100° C	BNC, N, TNC, SMA or 7/16 (male or female)
50T-242	50 Ohms	DC-2000 MHz	1.1:1 maximum	100 Watts average @ +25° C derate to 50 Watts @ +100° C	500 Watts	-55° C to +100° C	BNC, N or 7/16 (male or female)
50T-243	50 Ohms	DC-3000 MHz	1.2:1 maximum	100 Watts average @ +25° C derate to 50 Watts @ +100° C	500 Watts	-55° C to +100° C	N or 7/16 (male or female)

* VSWR Available: 1.0:1, 1.1:1, 1.2:1, 1.5:1, 2.5:1, 3.0:1, 3.5:1, 5.0:1 or 6.0:1 (other VSWR available upon request)



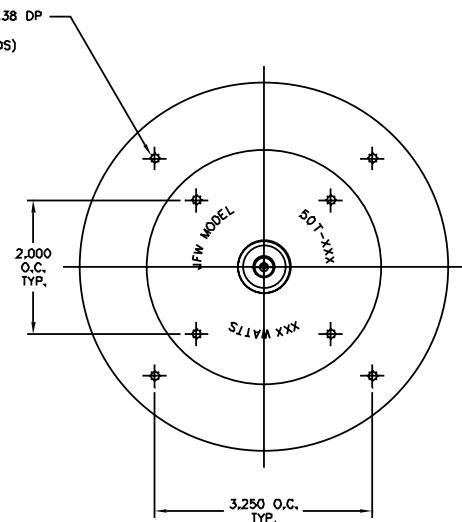
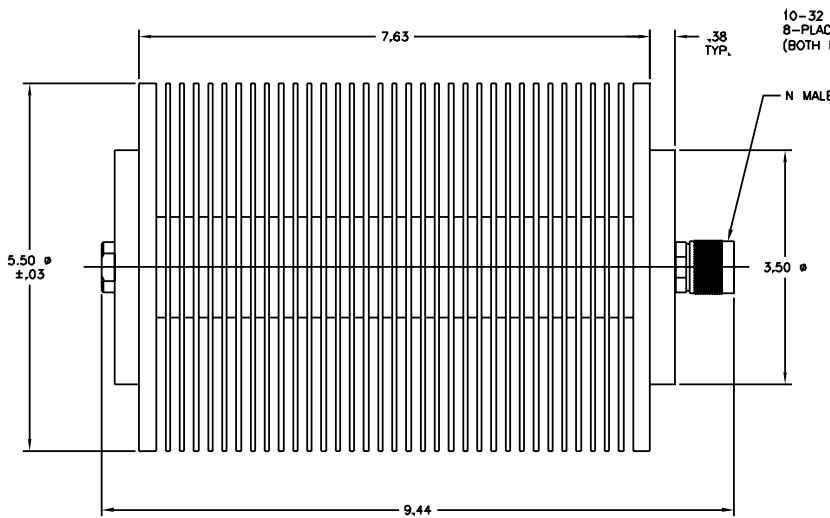
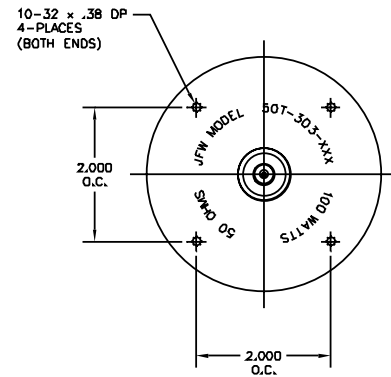
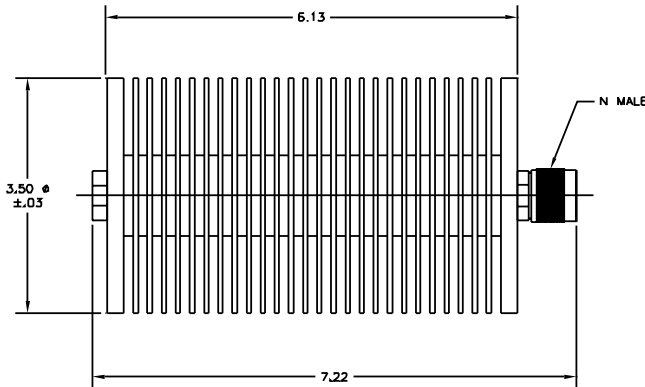
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100 & 200 Watt Terminations and Mismatches

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-303-XXX*	50 Ohms reference	DC-3000 MHz (1.0:1) DC-2500 MHz (1.1:1 thru 1.2:1) DC-2000 MHz (1.3:1 thru 3.0:1) DC-1000 MHz (5.0:1 thru 10.0:1)	1.15:1 maximum (1.0:1) +/- 5% DC-1000MHz +/- 10% 1000-2000 MHz (all other values)	100 Watts average @ +25° C derate to 50 Watts @ +100° C	1000 Watts	-55° C to +100° C	N or 7/16 (male or female)
50T-338	50 Ohms	DC-3000 MHz	1.15:1 maximum	200 Watts average @ +25° C derate to 50 Watts @ +70° C	1000 Watts	-55° C to +100° C	N or 7/16 (male or female)

*VSWR Available: 1.0:1, 1.1:1, 1.2:1, 1.3:1, 1.4:1, 1.5:1, 1.6:1, 1.7:1, 1.8:1, 1.9:1, 2.0:1, 2.5:1, and 3.0:1 (other VSWR available upon request)

50T-303



50T-338

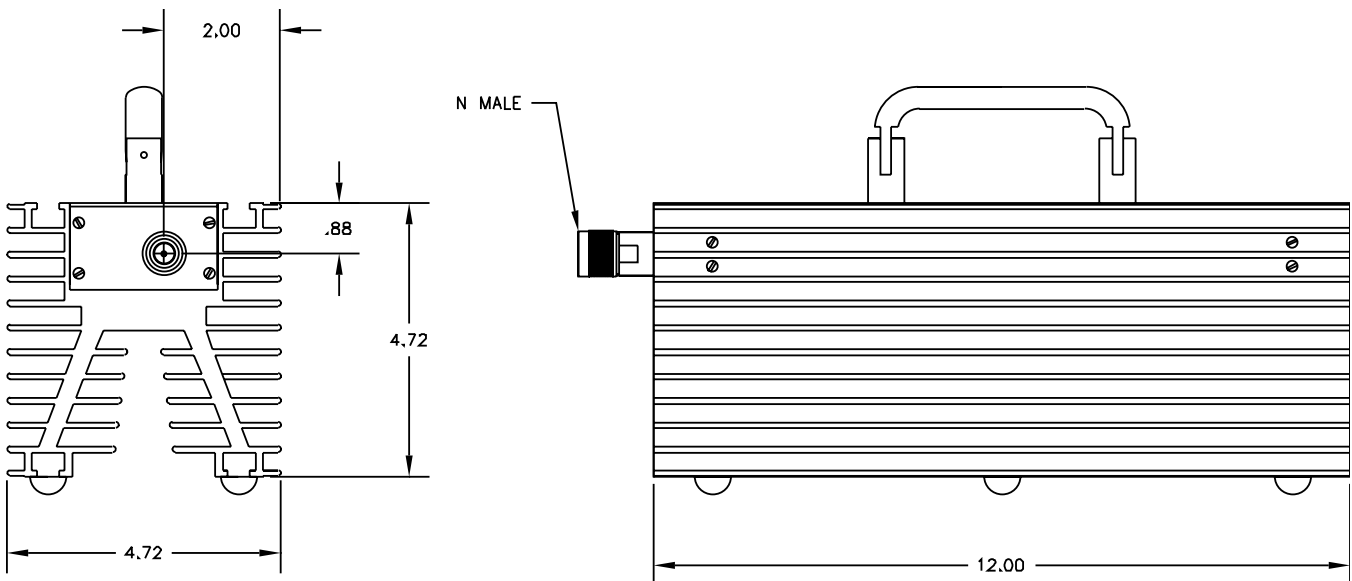
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200 Watt Terminations and Mismatches

High Peak Power

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-133-XXX*	50 Ohms reference	DC-1000 MHz (1.0:1 - 1.5:1) DC-100 MHz (above 1.5:1)	1.1:1 maximum (1.0:1) +/- 5% (all other values)	200 Watts average @ +25° C derate to 100 Watts @ +100° C	2500 Watts (100 microseconds 8% duty cycle)	-55° C to +100° C	BNC, N,TNC or 7/16 (male or female)

* VSWR Available: 1.0:1, 1.1:1, 1.2:1, 1.5:1 or 2.0:1 (other VSWR available upon request)

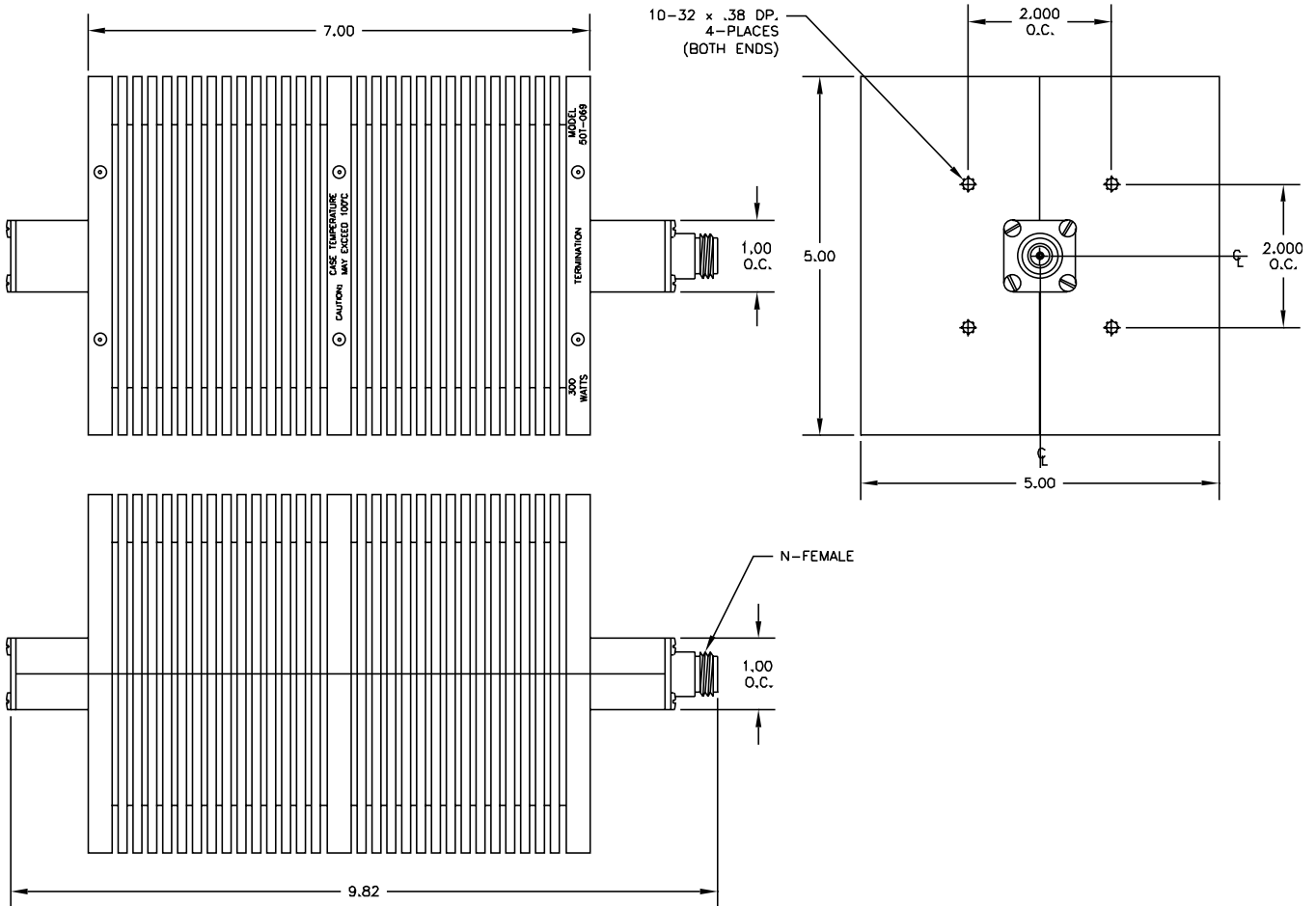


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300 Watt Terminations and Mismatches

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Peak Power	Operating Temperature	RF Connectors
50T-069-XXX*	50 Ohms reference	DC-1000 MHz (1.0:1 thru 1.5:1) DC-500 MHz (1.6:1 thru 5.0:1)	+/- 5% DC-1000 MHz (1.0:1 thru 1.5:1) +/- 8% DC-500 MHz (1.6:1 thru 5.0:1)	300 Watts average@ +25° C derate to 150 Watts @ +100° C	2500 Watts	-55° C to +100° C	BNC, N or TNC or 7/16 (male or female)

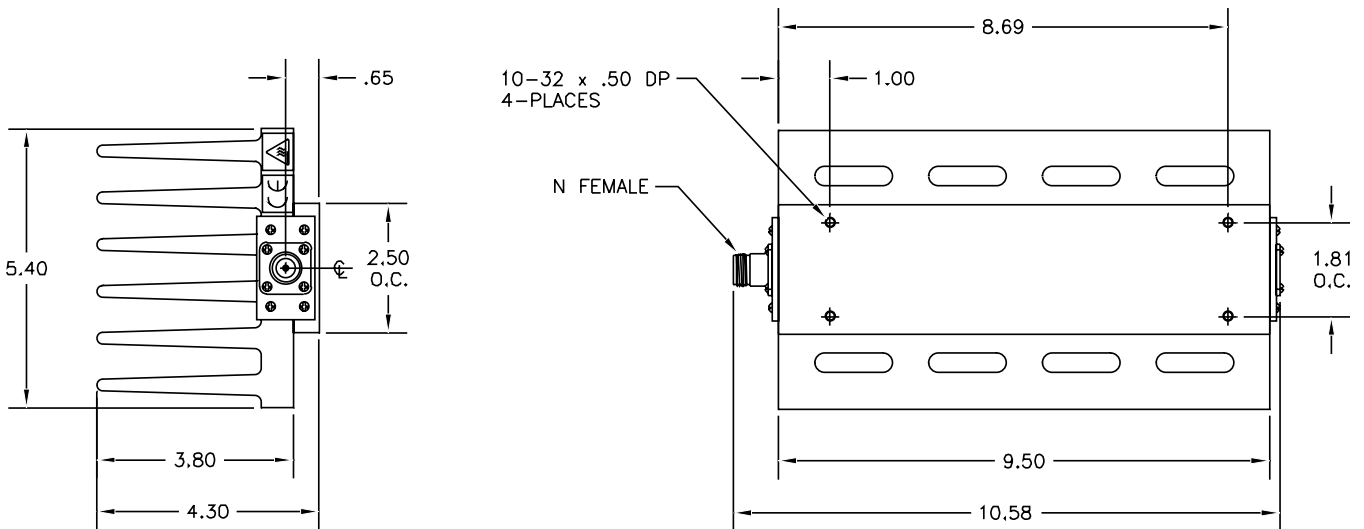
* VSWR Available: 1.0:1 thru 5.0:1
(other VSWR available upon request)



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500 Watt Terminations

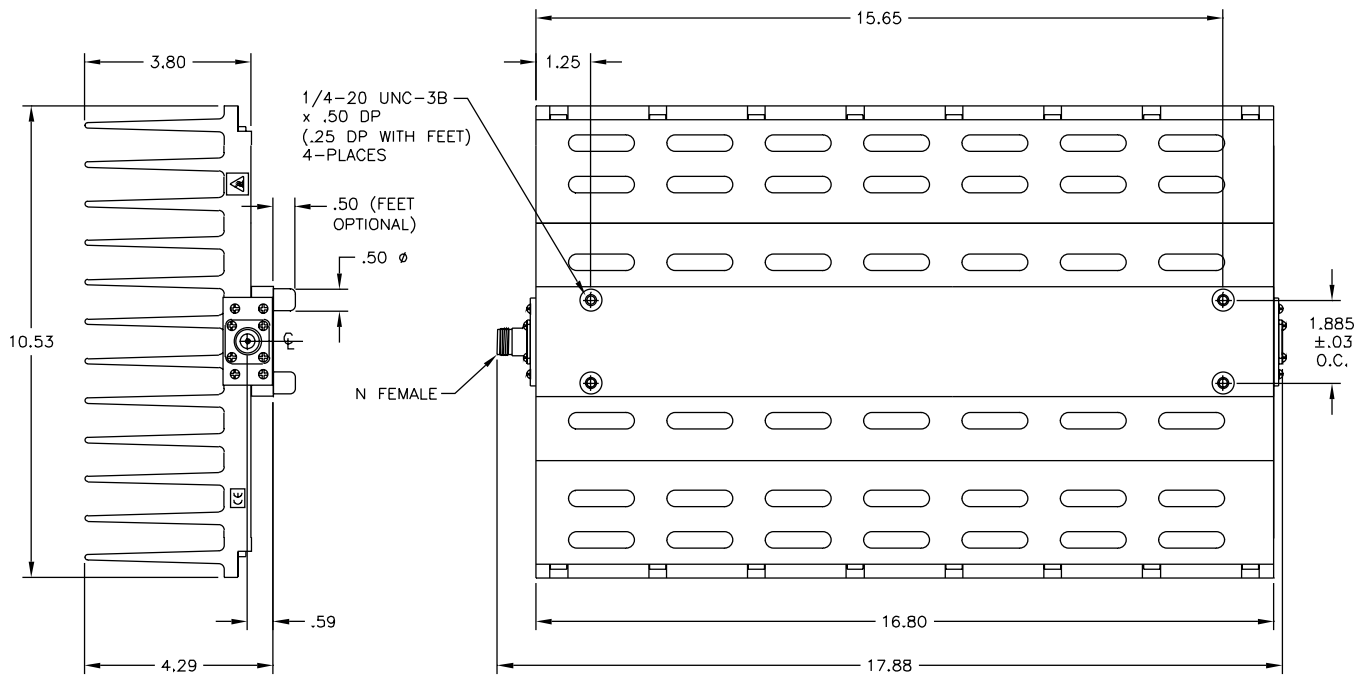
Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Operating Temperature	RF Connectors
50T-297	50 Ohms	DC-2500 MHz	DC-1000 MHz 1.10:1 maximum 1000-2500 MHz 1.25:1 maximum	500 Watts average at 25° C Derated linearly to 50 Watts @ 125° C	-25° C to +125° C	N, TNC, or 7/16 (male or female)



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1000 Watt Terminations

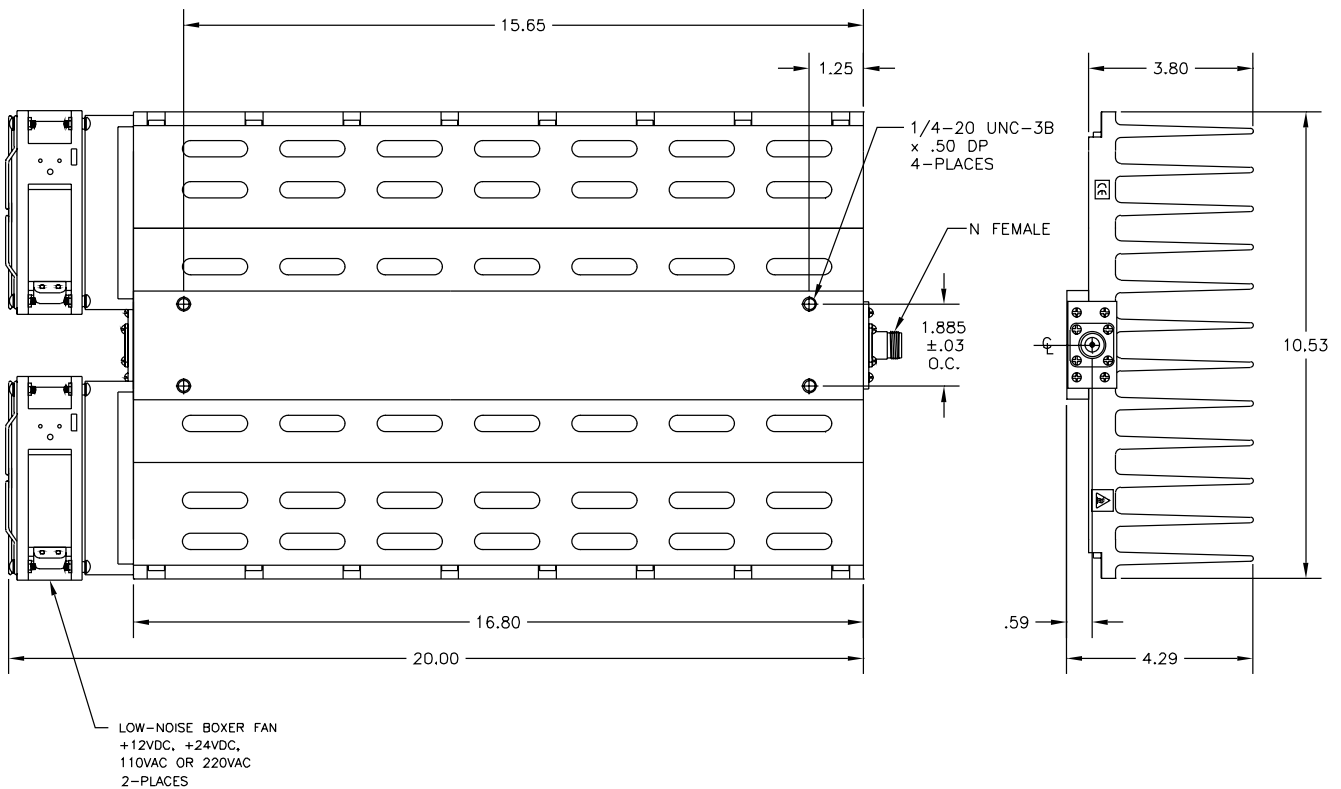
Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Operating Temperature	RF Connectors
50T-298	50 Ohms	DC-2400 MHz	DC-1000 MHz 1.10:1 maximum 1000-2400 MHz 1.25:1 maximum	1000 Watts average at 25° C Derated linearly to 50 Watts @ 125° C	-25° C to +125° C	N, TNC, or 7/16 (male or female)



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1500 Watt Terminations

Model	Impedance	Frequency Range	VSWR Tolerance	Input Power	Operating Temperature	Cooling Fan Voltage Supply Options	RF Connectors
50T-299-X*	50 Ohms	DC-2400 MHz	1.10:1 maximum DC-1000 MHz 1.25:1 maximum 1000-2400 MHz	1500 Watts average at 25° C Derated linearly to 50 Watts @ 125° C	0° C to +125° C	12 Vdc - A 24 Vdc - B 110 VAC - C 220 VAC - D	N, TNC, or 7/16 (male or female)



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