

Engineering Development Model

Loss-less Impedance Matching Pad Coaxial

SFMP-EDU1901

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : 99-01-1833

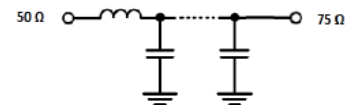
ELECTRICAL SPECIFICATIONS PRIMARY (50Ω) & SECONDARY (75Ω) @ +25°C

Parameter	Min.	Typ.	Max.	Units
Pass band Insertion loss @ 10 MHz	-	-	0.7	dB
Pass band Insertion loss @ 950-2150 MHz	-	0.75	-	dB
Passband VSWR (50Ω) @ 10 MHz	-	1.8	-	(:1)
Passband VSWR (50Ω) @ 950-2150 MHz	-	16	-	(:1)
Passband VSWR (75Ω) @ 10 MHz	-	1.8	-	(:1)
Passband VSWR (75Ω) @ 950-2150 MHz	-	1.5	-	(:1)

Functional Schematic

MAXIMUM RATINGS

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W
Max DC Current	500mA
Max DC Voltage	47V



PIN CONNECTIONS

Input	SMA Female (50Ω)
Output	F Female (75Ω)



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS

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Loss-less Impedance Matching Pad

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Typical Performance Data

FREQUENCY	INSERTION LOSS	INPUT RETURN LOSS, (50Ω)	OUTPUT RETURN LOSS, (75Ω)
(MHz)	(dB)	(dB)	(dB)
1.00	0.01	14.04	13.61
10.00	0.01	14.02	13.64
20.00	0.01	14.01	13.65
30.00	0.02	14.00	13.67
50.00	0.03	13.99	13.70
70.00	0.04	14.00	13.74
90.00	0.05	14.00	13.77
100.00	0.06	14.01	13.79
125.00	0.08	14.03	13.83
150.00	0.10	14.05	13.87
200.00	0.15	14.12	13.98
250.00	0.19	14.22	14.12
300.00	0.24	14.34	14.28
350.00	0.27	14.48	14.43
425.00	0.31	14.75	14.73
475.00	0.32	14.96	14.97
525.00	0.32	15.19	15.20
575.00	0.29	15.44	15.50
625.00	0.28	15.73	15.85
675.00	0.26	16.03	16.21
725.00	0.19	16.36	16.65
775.00	0.20	16.71	17.13
825.00	0.15	17.08	17.66
875.00	0.13	17.47	18.31
900.00	0.13	17.68	18.64
950.00	0.13	18.09	19.30
1000.00	0.13	18.51	20.07
1075.00	0.17	19.15	21.31
1175.00	0.20	19.96	22.93
1275.00	0.19	20.65	23.99
1325.00	0.28	20.91	24.28
1400.00	0.23	21.16	24.07
1425.00	0.25	21.20	23.97
1500.00	0.23	21.21	23.31
1550.00	0.27	21.13	22.80
1600.00	0.19	21.00	22.38
1650.00	0.21	20.81	21.83
1700.00	0.25	20.60	21.44
1750.00	0.17	20.39	21.12
1800.00	0.19	20.18	20.71
1850.00	0.23	19.97	20.47
1900.00	0.22	19.79	20.27
1950.00	0.21	19.66	20.05
2000.00	0.26	19.57	19.95
2050.00	0.30	19.53	19.90
2100.00	0.26	19.56	19.82
2150.00	0.32	19.67	19.87
2200.00	0.36	19.87	19.97
2225.00	0.39	19.99	19.97
2275.00	0.28	20.33	20.10
2300.00	0.28	20.55	20.23
2350.00	0.50	21.08	20.47
2400.00	0.27	21.73	20.72
2450.00	0.38	22.54	21.07
2500.00	0.38	23.51	21.42
2600.00	0.35	25.56	21.95
2700.00	0.33	25.30	21.48
2800.00	0.35	21.72	19.75
2900.00	0.29	17.87	17.11
3000.00	0.28	14.63	14.43



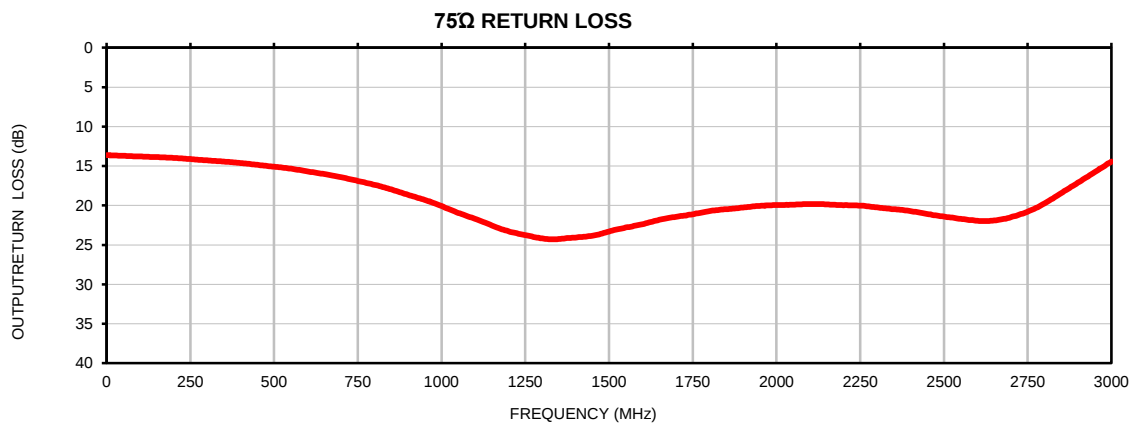
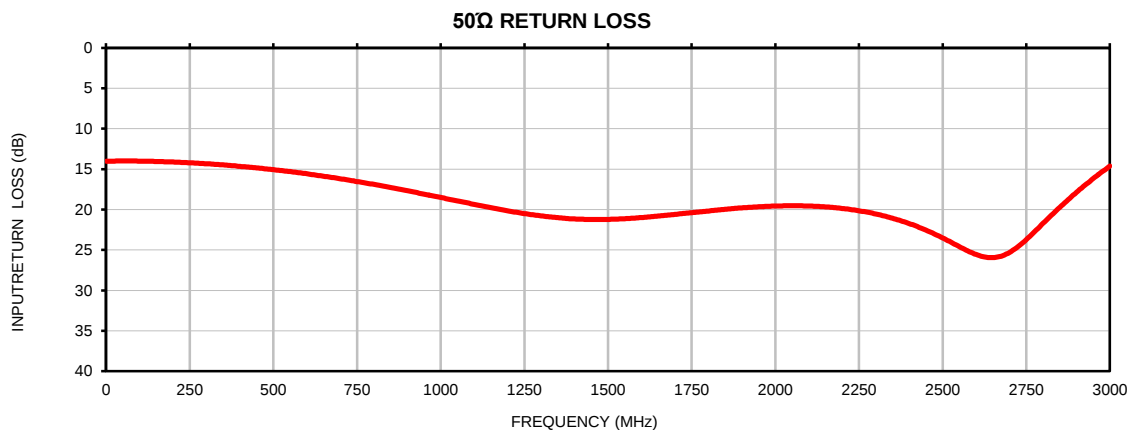
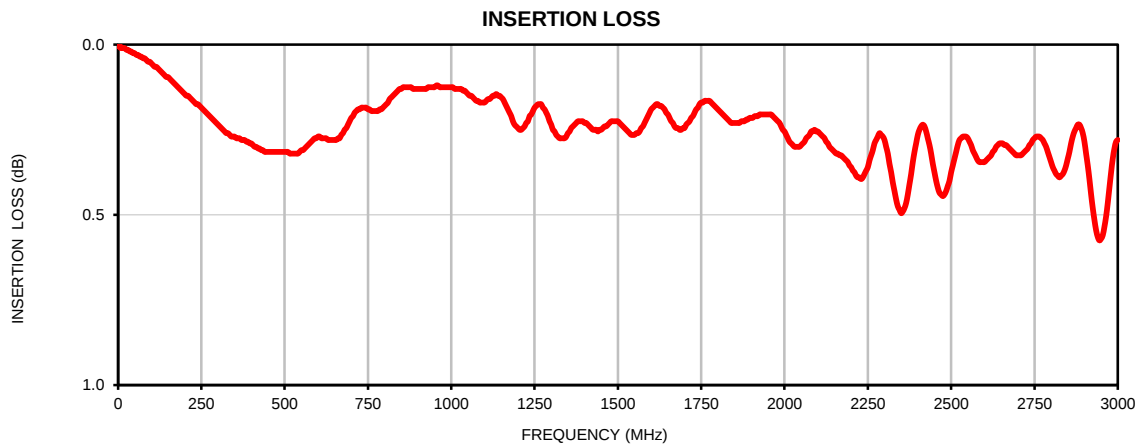
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Typical Performance Curves





All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I