

# Coaxial Matching Pad N-TYPE

50/75Ω

DC to 3000 MHz

## UNMP-5075+ UNMP-5075



CASE STYLE: FF779

Connectors	Model
75ΩM-N	UNMP-5075(+)
50ΩF-N	

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Maximum Ratings

Operating Temperature -45°C to 100°C

Storage Temperature -55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

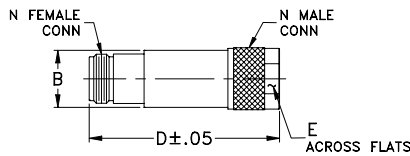
### Features

- minimum loss pad
- wideband coverage, DC to 3000 MHz
- 0.5 watt rating
- rugged unibody construction
- off-the-shelf availability
- very low cost

### Applications

- impedance matching

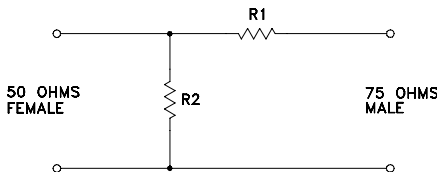
### Outline Drawing



### Outline Dimensions (inch/mm)

B	D	E	wt
.68	2.11	.718	grams
17.27	53.59	18.24	72.5

### Electrical Schematic



### Electrical Specifications

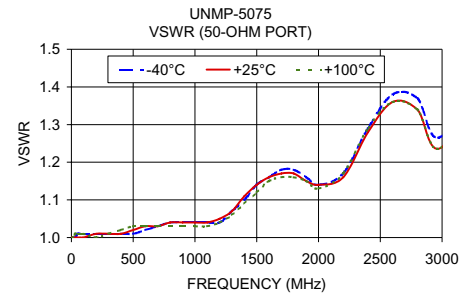
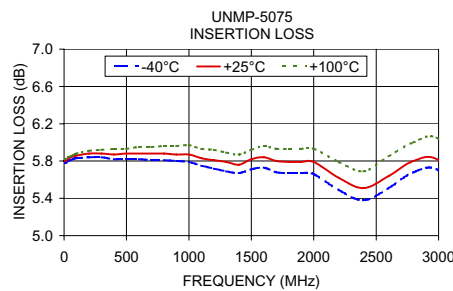
FREQ. (MHz)	ATTENUATION * (dB)			VSWR (:1) Max.			POWER (W)
	Flatness** Max.						
$f_L-f_U$	Nom.	DC-100 MHz	100-1000 MHz	1000-3000 MHz	DC-100 MHz	100-1000 MHz	1000-3000 MHz
DC-3000	5.7±0.15	0.2	0.3	0.4	1.10	1.30	1.5

\* Attenuation varies by 0.3 dB max. over temperature

\*\* Flatness= variation over band divided by 2

### Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)	
		50 Ω	75 Ω
1.00	5.80	1.00	1.00
5.00	5.80	1.00	1.00
10.00	5.80	1.00	1.00
50.00	5.84	1.00	1.01
100.00	5.86	1.00	1.01
300.00	5.88	1.01	1.03
500.00	5.88	1.02	1.05
800.00	5.88	1.04	1.07
1000.00	5.87	1.04	1.09
1200.00	5.81	1.05	1.11
1500.00	5.82	1.14	1.14
1800.00	5.79	1.17	1.17
2000.00	5.79	1.14	1.20
2600.00	5.64	1.36	1.30
3000.00	5.81	1.24	1.40



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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# Matching Pad 50W/75W, N-Type

# UNMP-5075+

## Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	50 W RETURN LOSS (dB)	75 W RETURN LOSS (dB)
1	5.80	46.06	46.06
3	5.80	46.06	46.06
5	5.80	46.06	46.06
7	5.80	46.06	46.06
10	5.80	46.06	46.06
30	5.82	46.06	46.06
50	5.84	46.06	46.06
70	5.85	46.06	46.06
90	5.86	46.06	46.06
100	5.86	46.06	46.06
200	5.88	46.06	40.09
300	5.88	46.06	36.61
400	5.87	46.06	34.15
500	5.88	40.09	32.26
600	5.88	36.61	32.26
700	5.88	36.61	30.71
800	5.88	34.15	29.42
900	5.87	34.15	28.30
1000	5.87	34.15	27.32
1100	5.83	34.15	26.44
1200	5.81	32.26	25.66
1300	5.79	29.42	24.94
1400	5.76	25.66	24.29
1500	5.82	23.69	23.69
1600	5.84	22.61	23.13
1700	5.80	22.12	23.13
1800	5.79	22.12	22.12
1900	5.79	23.13	21.66
2000	5.79	23.69	20.83
2200	5.62	22.61	19.40
2400	5.51	18.22	18.49
2600	5.64	16.33	17.69
2800	5.80	16.75	16.75
3000	5.81	19.40	15.56

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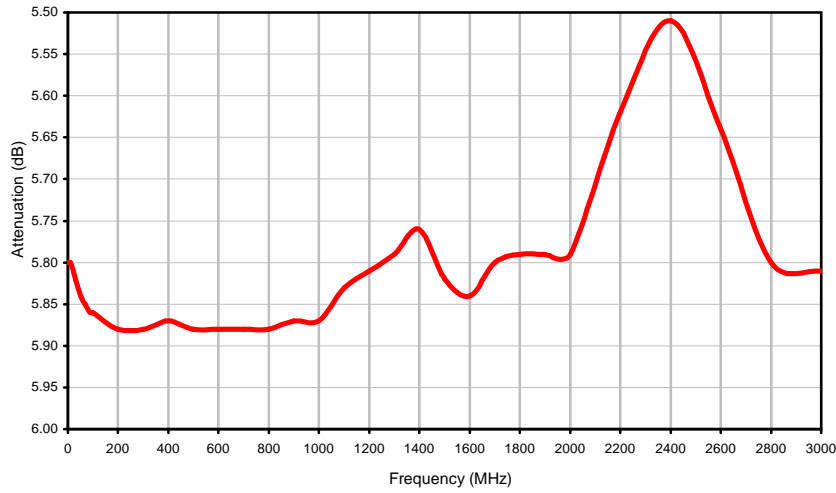


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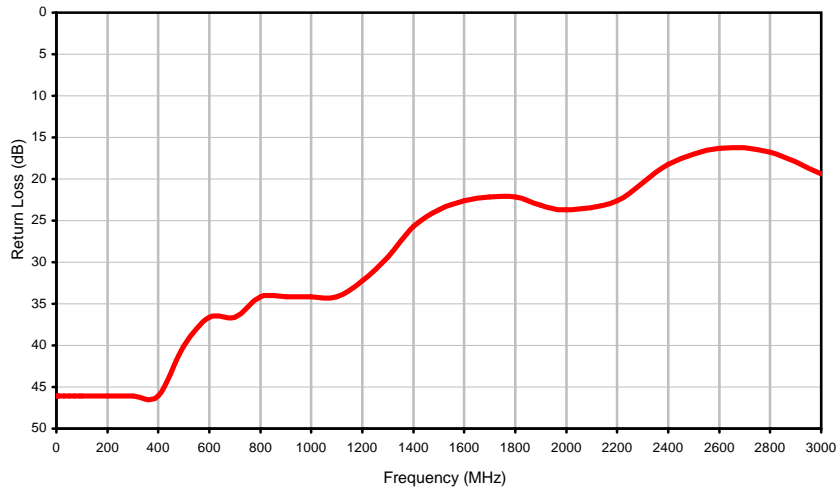


## Typical Performance Curves

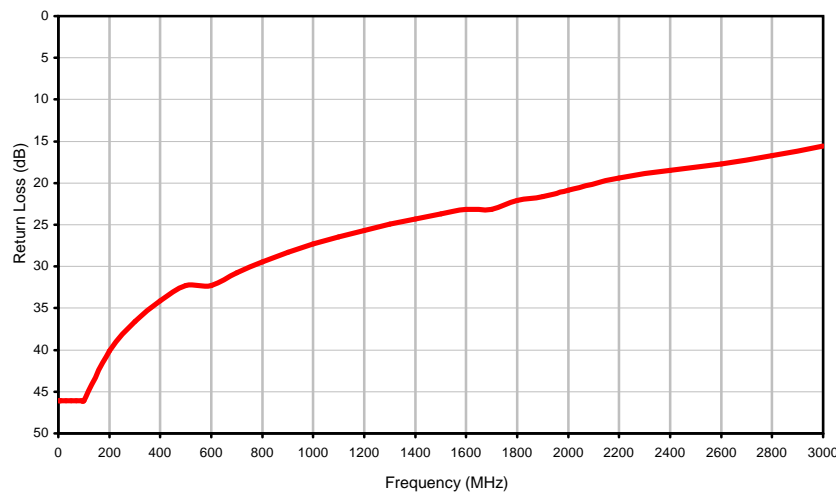
Attenuation



50 Ohm Return Loss



75 Ohm Return Loss



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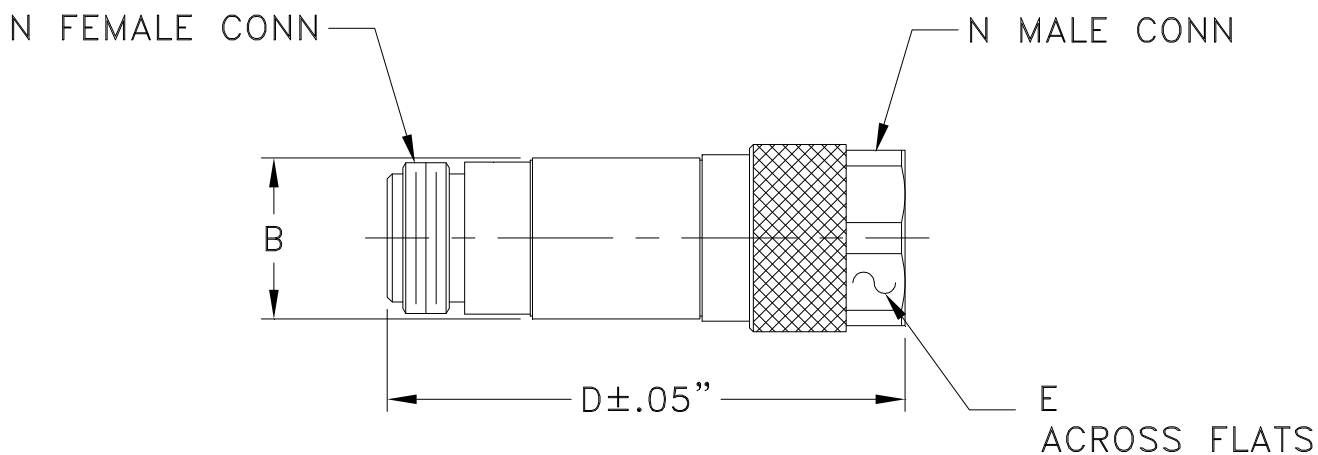


# Case Style

# FF

## Outline Dimensions

### FF779



CASE #.	A	B	C	D	E	WT GRAMS
FF779	--	.71 (18.03)	--	2.11 (53.59)	.718 (18.24)	72.5

Dimensions are in inches (mm). Tolerances: 2Pl.  $\pm 0.05/-0.04$ ; 3Pl.  $\pm 0.030$

### Notes:

1. Case material: Brass.
2. Case finish: Nickel plate.

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FF779 Rev.: AR (13/AUG/21) ECO-009237 File: FF779

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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	-45° 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