

DC Pass

# Matching Transformer

Z7550-FFNM+

50/75Ω

DC to 2300 MHz

## The Big Deal

- Low matching loss of 0.6 dB typ
- Wideband coverage, DC-2300 MHz
- Maximum DC current handling capacity of 5A
- Connectorized package



Generic photo used for illustration purposes only  
CASE STYLE: H795-1

## Product Overview

Z7550-FFNM is a DC passing matching transformer that allows impedance matching between 50Ω and 75Ω systems with minimum reflection into the circuit. This matching transformer will find its application in any system where 50Ω-75Ω matching is required.

## Key Features

Feature	Advantages
Low insertion loss	This introduced minimum reflection into the circuit.
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.

### Notes

- A. 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.  
B. 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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# DC Pass Matching Transformer

## Z7550-FFNM+

50/75Ω DC to 2300 MHz



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CASE STYLE: H795-1

Connectors Model

75Ω F-F Z7550-FFNM+

50Ω N-M

**+RoHS Compliant**

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

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Current	5A max.
DC Resistance	0.2Ω max.

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

### Features

- Low matching loss of 0.6 dB typ
- Wideband coverage, DC-2300 MHz
- Connectorized package

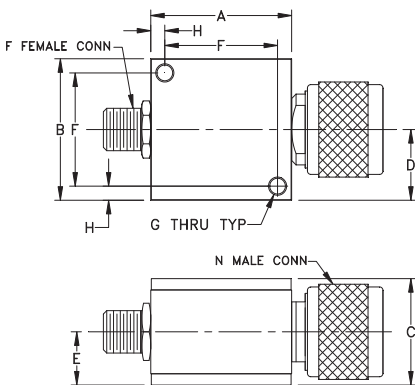
### Applications

- Impedance matching

### Coaxial Connections

Input	F-Female
Output	N-Male

### Outline Drawing

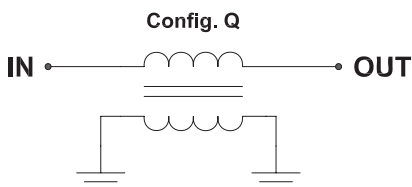


### Outline Dimensions (inch mm)

A	B	C	D	E
1.25	1.25	.94	.63	.47
31.75	31.75	23.88	16.00	11.94
F	G	H	wt	
1.000	.125	.125	grams	
25.40	3.18	3.18	67	

Note: Please refer to case style drawing for details

### Functional Schematic



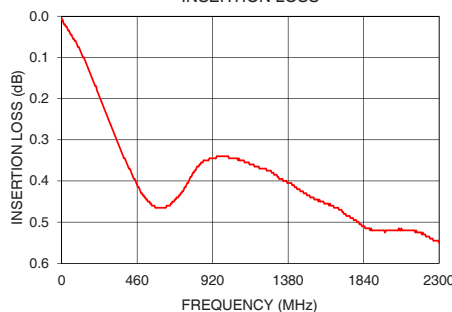
### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range	-	DC	-	2300	MHz
Insertion Loss	10	-	-	1.0	dB
	950-2300	-	0.6	1.2	
VSWR	10	-	-	1.8	:1
	950-2300	-	-	1.5	
Power	DC-2300	-	-	2.0	W

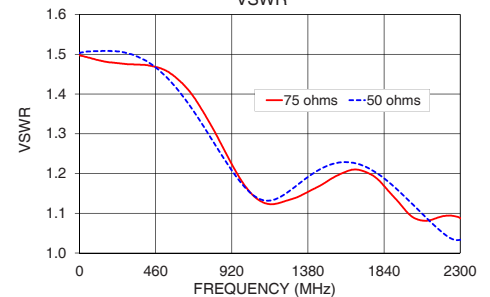
### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR	
		75 Ω	50 Ω
10	0.02	1.50	1.50
50	0.04	1.49	1.51
100	0.08	1.49	1.51
200	0.17	1.48	1.51
450	0.40	1.47	1.47
950	0.34	1.20	1.19
1200	0.37	1.12	1.14
1500	0.44	1.18	1.22
2000	0.52	1.09	1.13
2300	0.55	1.09	1.03

Z7550-FFNM+ INSERTION LOSS



Z7550-FFNM+ VSWR



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