# **Matching Transformer**

# **Z7550-FFNM+**

 $50/75\Omega$ 

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



#### **Product Overview**

Z7550-FFNM is a DC passing matching transformer that allows impedance matching between  $50\Omega$  and  $75\Omega$  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.

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+

## $50/75\Omega$

## DC to 2300 MHz

**Maximum Ratings** 

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

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

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

#### **Applications**

· Impedance matching



CASE STYLE: H795-1 Connectors Model Z7550-FFNM+ **75**Ω F-F

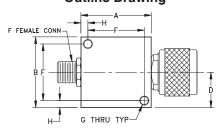
50Ω N-M

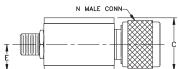
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

#### **Coaxial Connections**

Input	F-Female
Output	N-Male

### **Outline Drawing**





#### Outline Dimensions (inch )

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

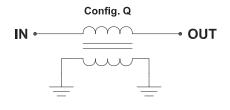
### Electrical Specifications at 25°C

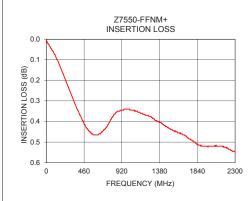
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Frequency Range	-	DC	-	2300	MHz
Insertion Loss	10	-	-	1.0	dB
insertion Loss	950-2300	-	0.6	1.2	
VSWR	10	-	-	1.8	.4
VSWH	950-2300	-	-	1.5	:1
Power	DC-2300	-	-	2.0	W

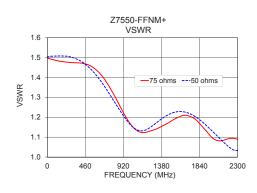
#### **Typical Performance Data**

**				
Frequency (MHz)	Insertion Loss (dB)	VSWR		
		<b>75</b> Ω	<b>50</b> 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	

#### **Functional Schematic**







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