

RoHS Compliant



9:1 Transmission Line Step-up Transformer 5-220MHz

MABA-007488-CT9550
V1P

Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

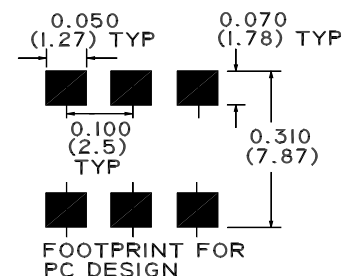
Parameter	Units	Typical	Minimum	Maximum	
Frequency Range 5-220	MHz				
Insertion Loss 1 {From Pin 6 to 1 & From Pin 4 to 3} (Short Connections)	5 - 155 MHz	0.2	—	0.5	
	155-220 MHz	0.8	—	1.0	
Amplitude Imbalance 1	5 - 55 MHz	0.03	—	0.2	
	55 -155 MHz	0.04	—	0.3	
	155 -220 MHz	0.14	—	0.5	
Phase Imbalance 1	5-55 MHz	°	—	1.0	
	55 -155 MHz	°	—	2.0	
	155 -220 MHz	°	—	2.5	
Insertion Loss 2 {From Pin 6 to 3 & From Pin 4 to 1} (Cross connections)	5 - 55 MHz	0.8	—	1.0	
	55-100 MHz	1.0	—	1.2	
	100-220 MHz	1.4	—	1.8	
Amplitude Imbalance 2	5 - 55 MHz	0.03	—	0.2	
	55 -155 MHz	0.04	—	0.3	
	155 -220 MHz	0.14	—	0.5	
Phase Imbalance 2	5-55 MHz	°	—	2.0	
	55 -100 MHz	°	—	3.0	
	100 -220 MHz	°	—	4.0	
Input Return Loss	5-220 MHz	dB	10	8	—

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum
Max Input Power	250mW
DC current	30mA
Operating Temperature	-20°C to +85°C
Storage Temperature	-55°C to +100°C

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- M/A-COM does not recommend sustained operation near these survivability limits.

Recommended PCB Configuration



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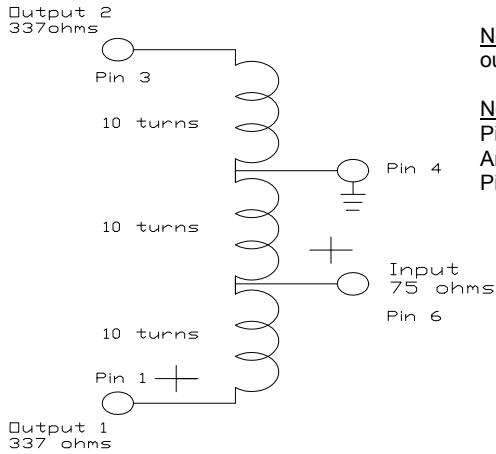
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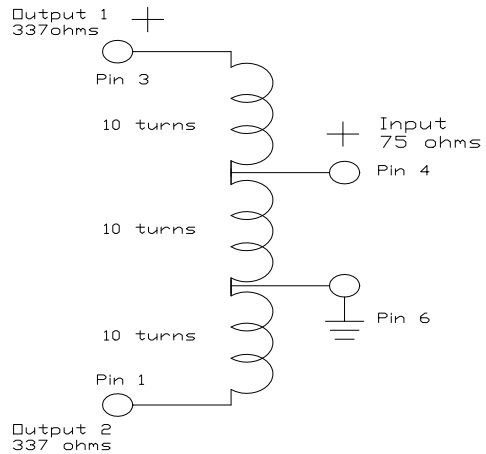
Schematic for Config 1



Note: Terminate unused output

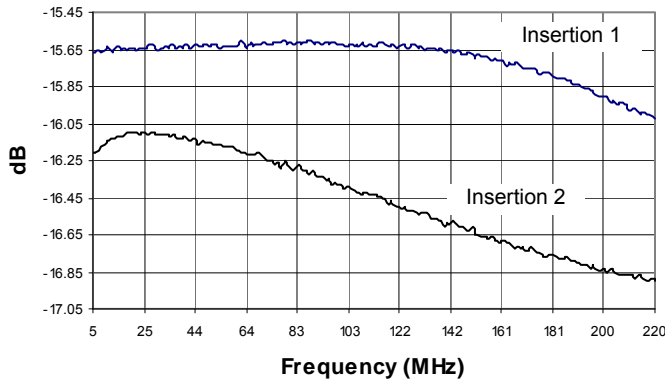
Note: When Pin 4 is the I/P
Pin 6 is ground
And when Pin 6 is the I/P
Pin 4 is ground.

Schematic for Config 2

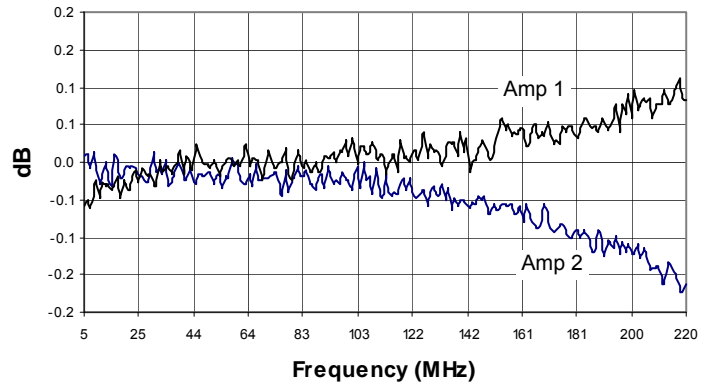


Typical Performance Curves: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

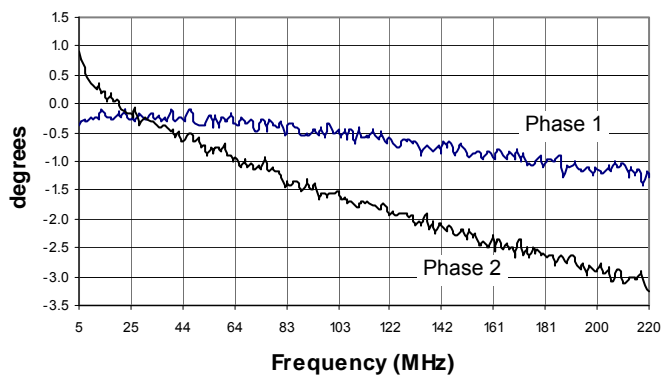
Insertion Loss 1 & 2 (Reference Value -15.45dB)



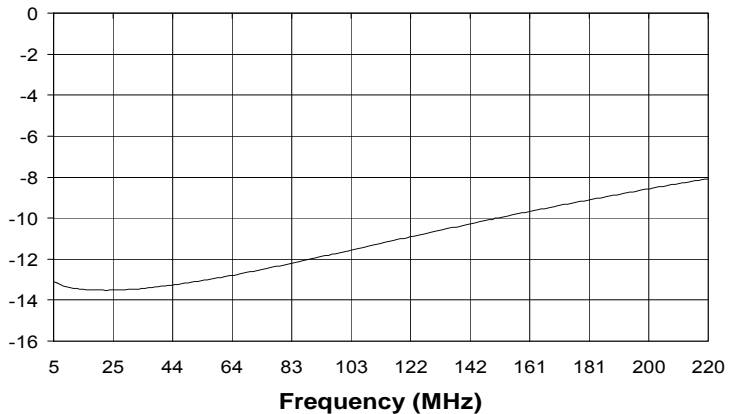
Amplitude Unbalance



Phase Balance



Input Return Loss



3

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