

E-Series RF 1:1 Transmission Line Transformer 4.5 - 3000 MHz

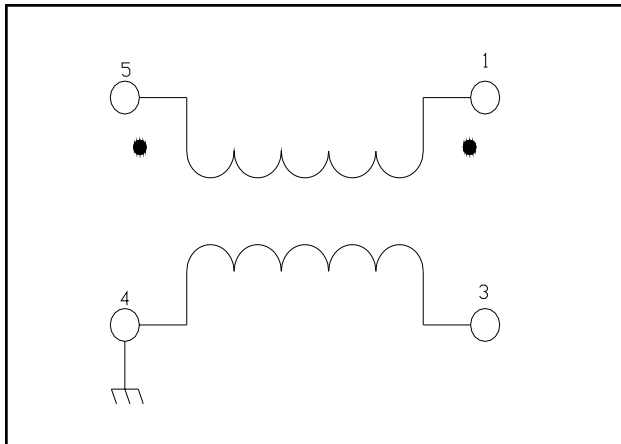
Rev. V5

Electrical Specifications: $T_A = 25^\circ\text{C}$, $V_{\text{HIGH}} = 3.0\text{ V}$, $V_{\text{LOW}} = 0\text{ V}$, $Z_0 = 50\ \Omega$ ⁶

Parameter	Test Conditions	Test Conditions	Units	Min	Typ	Max
RF Frequency	-	4.5 - 3000	MHz	-	-	-
Insertion Loss	-	4.5 - 1000	dB	-	0.32	1.0
		1000 - 2000	dB	-	-	2.0
		2000 - 3000	dB	-	-	3.5
Amplitude Unbalance	-	4.5 - 1000	dB	-	-	1.0
Phase Unbalance	-	4.5 - 1000	Degrees	-	-	20

6. External DC blocking capacitors are required on all RF ports (39 pF capacitors are recommended).

Schematic



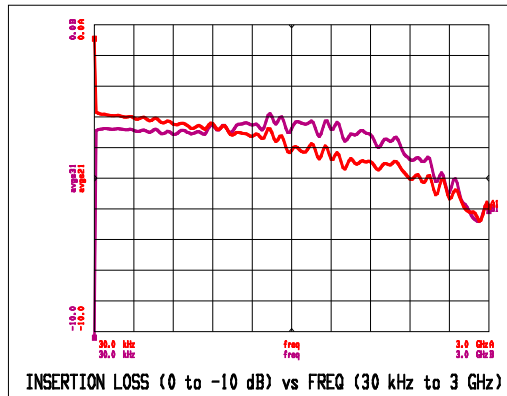
† Reference Application Note M538 for lead-free solder reflow recommendations.
Meets JEDEC moisture sensitivity level 1 requirements.

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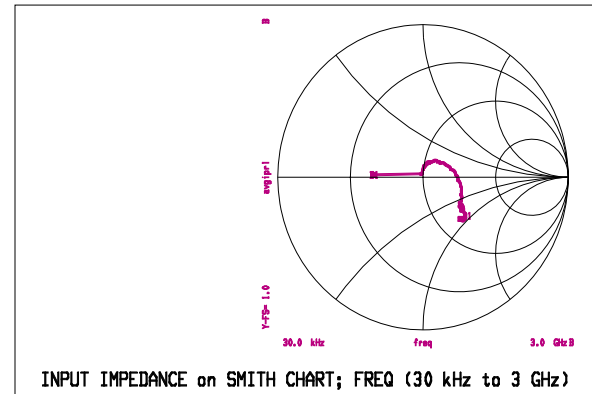
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Typical Performance Curves

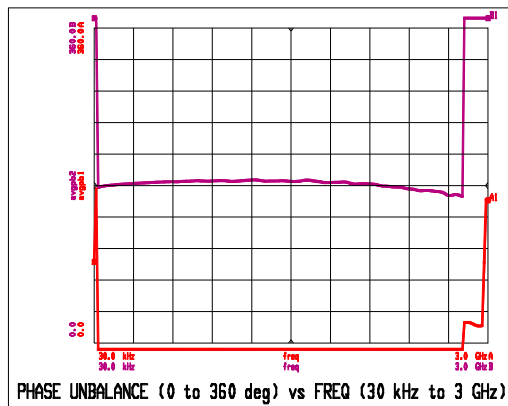
Insertion Loss



Input Impedance



Phase Unbalance



Amplitude Unbalance

