

High Frequency Ceramic Solutions

Preliminary

953 MHz BPF/Balun/Matching Network for T.I. Chipset CC11XX

P/N 0953BM15A0001

Detail Specification: 12/04/09

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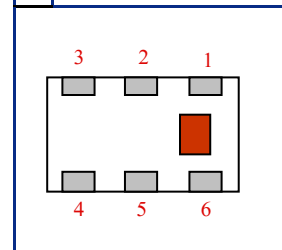
General Specifications

Part Number	0953BM15A0001
Frequency (MHz)	950 - 956 MHz
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Conj. match to T.I. CC11XX Chipset
Insertion Loss	2.1 dB max.
Return Loss	9.5 dB min.
Attenuation (min.)	10 @ 780MHz
	50 min.@ 1900 - 1912MHz
	35 min.@ 2850 - 2868MHz
	35 min.@ 3800 - 3824MHz

Phase Difference	180° ± 10
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Power Rating	1W max.
Storage Conditions	+5 to +35°C, Humidity 45 - 75%RH
Storage Period	12 mos. Max
Reel quantity	4000 pcs
Moisture Sensitivity Level	2

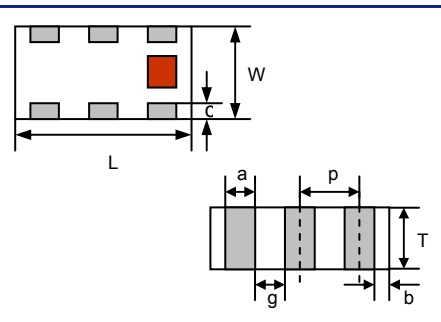
Terminal Configuration

No.	Function
1	Unbalanced Port
2	GND
3	Balanced Port
4	Balanced Port
5	GND
6	GND



Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 ± 0.004	0.70 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-0.008	0.30 +0.1/-0.20
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05

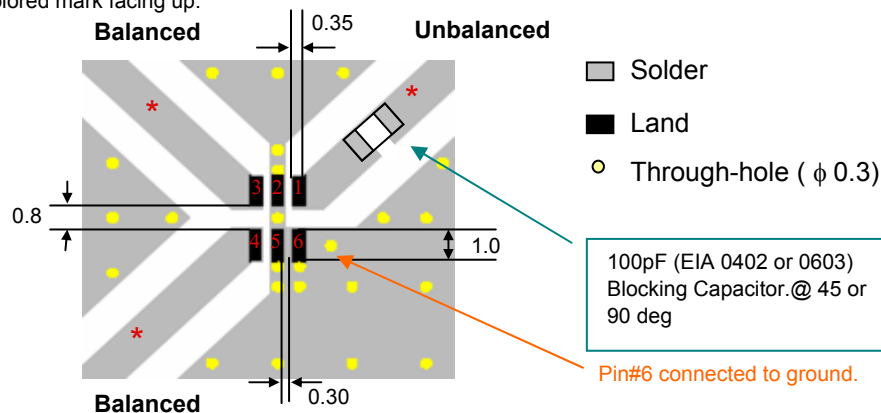


Mounting Considerations

* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Mount device with colored mark facing up.

Pin reference



Units: mm

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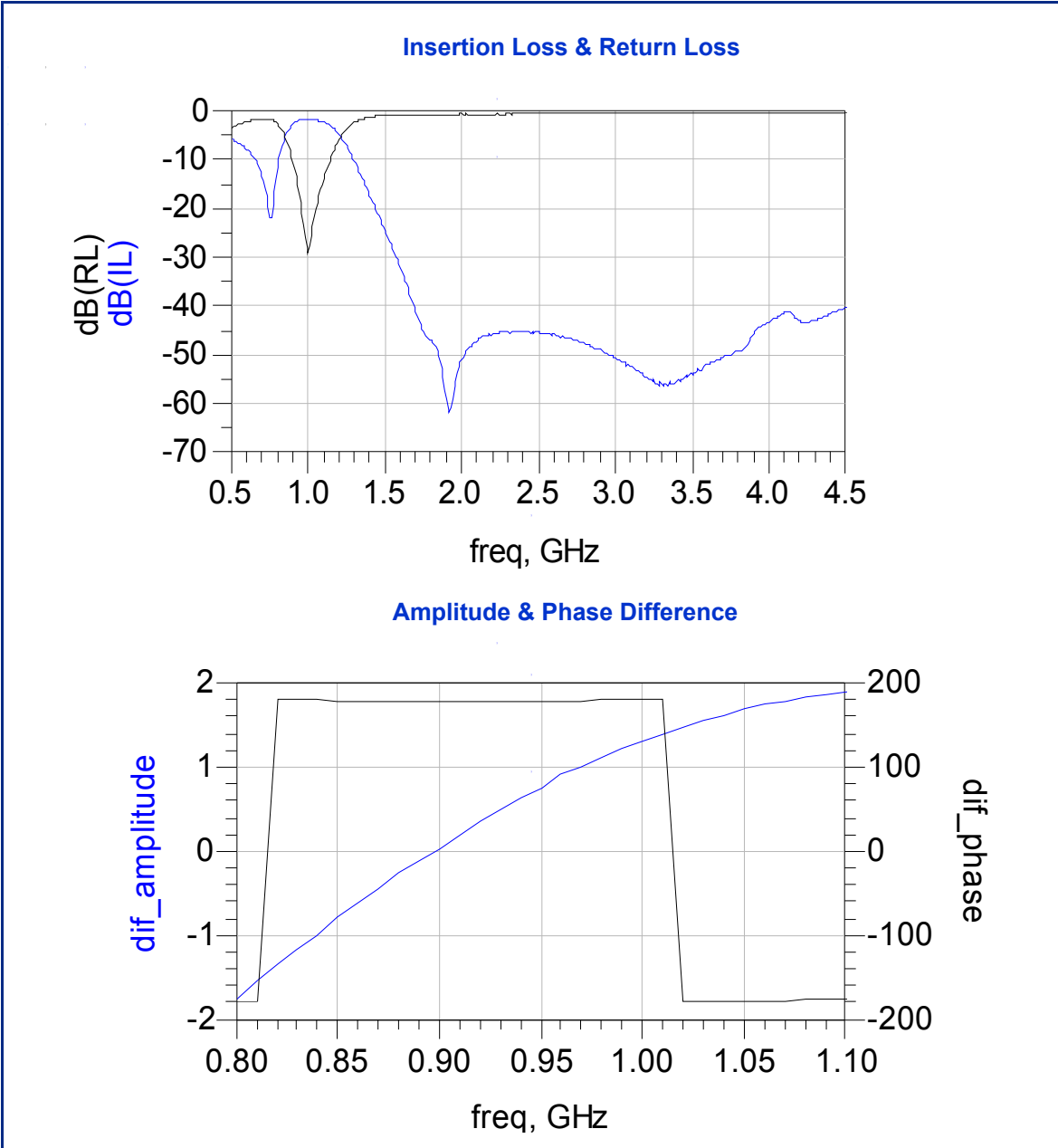
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Typical Electrical Performance (T=25°C)



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