



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"High Frequency Ceramic Solutions"

50Ω:100Ω 783MHz RF Balun + Integrated Filter

P/N 0783FB15A0100

Detail Specification: 03/12/09

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General Specifications

Part Number	0783FB15A0100
Frequency (MHz)	779 - 787
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Insertion Loss	1.5 dB max.
Return Loss	10 dB min.
Phase Difference	180° ± 15
Amplitude Difference	2.0 dB max.

Attenuation	30 dB min.@ 2Fo
	30 dB min.@ 3Fo
	30 dB min.@ 4Fo
Operating Temperature	-40 to +85°C
Recommended Storage Conditions*	+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max
Input Power	2 Watts max.
Reel Quantity	4,000

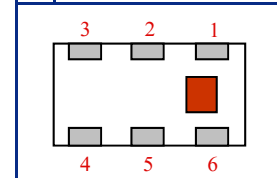
* 18 months in vacuum sealed bag and 1 week cumulative after opened.

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/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05

Terminal Configuration

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

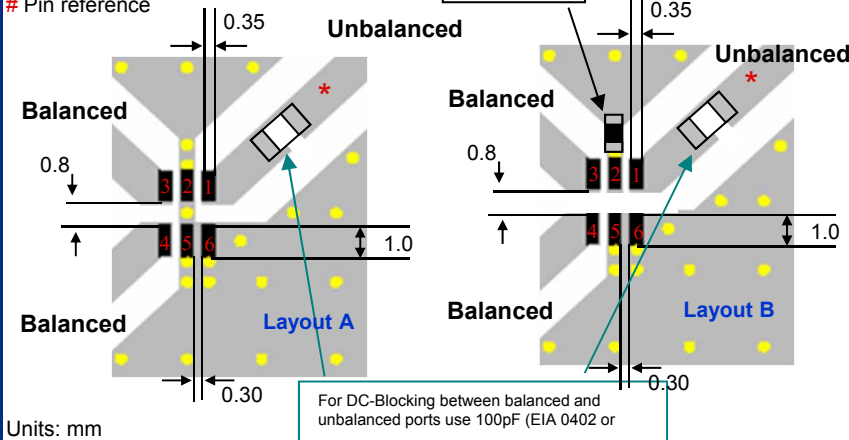


For DC Connections, go to Page 2

Mounting Considerations

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

Pin reference



- Solder
- Land
- Through-hole (φ 0.3)

Layout A is recommended for all sub 1 GHz designs

Layout B can be used as an alternative when sharing same land pattern with 2.45GHz designs. Refer to p/n:2450FB15A0100 or 2450FB15L0001

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



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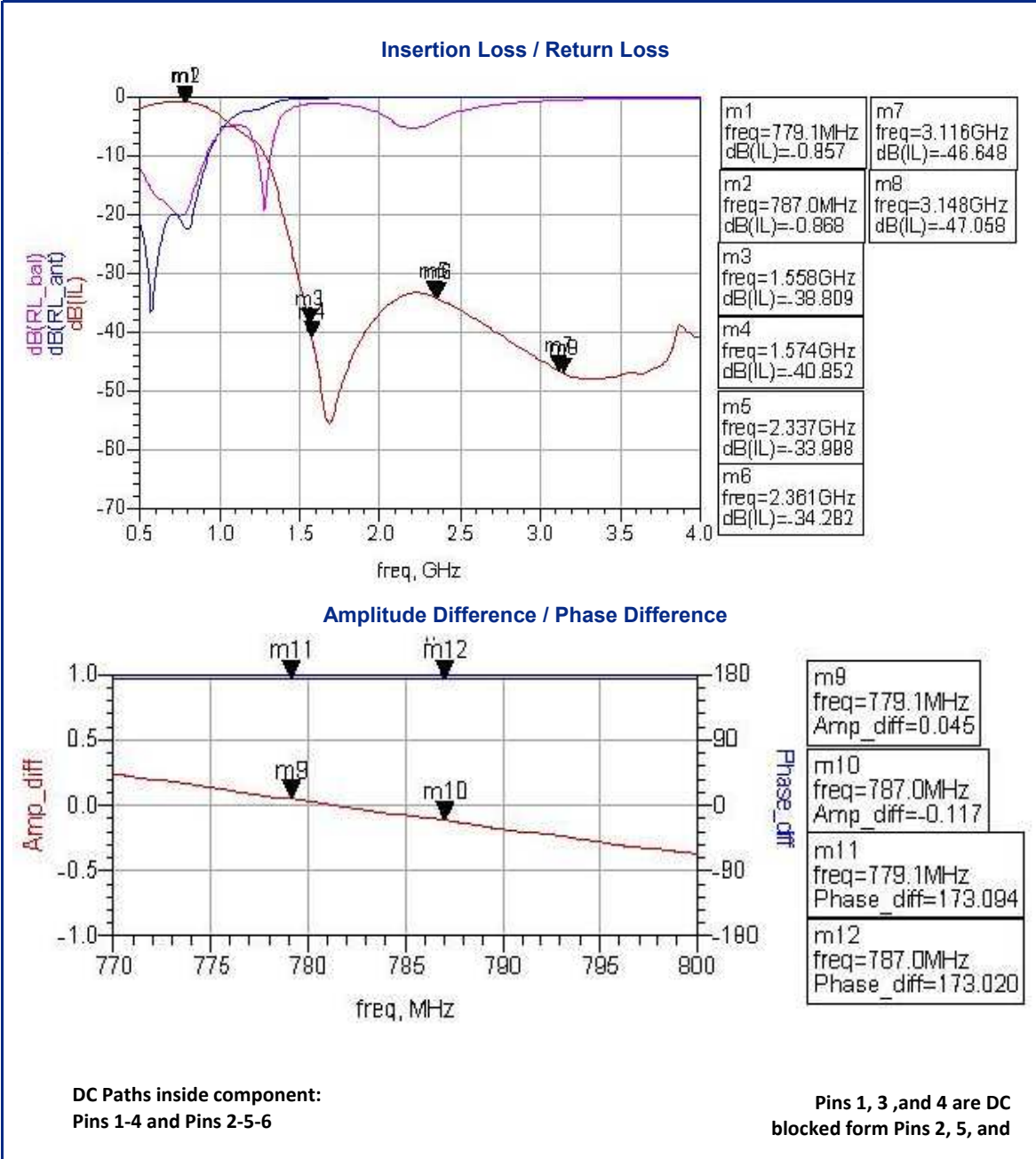
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Typical Electrical Performance (T=25°C)



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