



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"

2.45 GHz Impedance matched Balun-Filter for Texas Instruments' CC2500, CC2510, and CC2511 Chipsets

P/N 2450BM15B0003

Detail Specification: 9/12/2012

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General Specifications

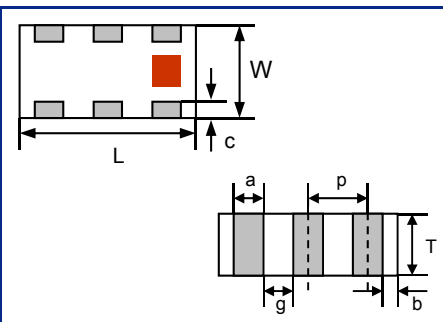
Part Number	2450BM15B0003
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Conjugate match to TI CC2500, CC2510, CC2511 chipsets
Insertion Loss	2.2 dB max. 1.7dB typ
Return Loss	10 dB min.
Phase Difference	180° ± 12
Amplitude Difference	2.0 dB max.

Differential Mode Attenuation (dB)	20 min.@ 4800~5000MHz 20 min.@ 7200~7500MHz
Common Mode Attenuation (dB)	17 min.@ 4800~5000MHz
Operating Temperature	-40°C to +125°C
Recommended Storage Conditions	+5 to +35°C, Humidity: 45-75%RH, 12 mos. Max
Input Power	2 Watts max.
Reel Quantity	4,000

* 18 months in vacuum sealed bag and 1 week after opened. For more info go to www.johansontechnology.com/silverleads

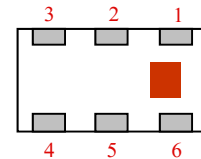
Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.031 ± 0.004	0.80 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/- .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	DC Feed + RF GND
3	Balanced Port
4	Balanced Port
5	GND
6	GND



Mounting Considerations

Units: mm

0402 22pF RF GND cap Johanson p/n: 500R07S220JV4

CC2500

Johanson Chip Inductor p/n L-07C10NJV6 (EIA 0402)

0.8

0.8

0.18

0.35

0.30

Legend:
 [Grey Box] Solder Resist
 [Black Box] Land
 [Yellow Circle] Through-hole (φ 0.3)

* Line width should be designed to match 50 W characteristic impedance, depending on PCB material and thickness.
 - Go to page 2 for a more detailed layout

Johanson Technology, Inc. reserves the right to make design changes without notice.
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"High Frequency Ceramic Solutions"

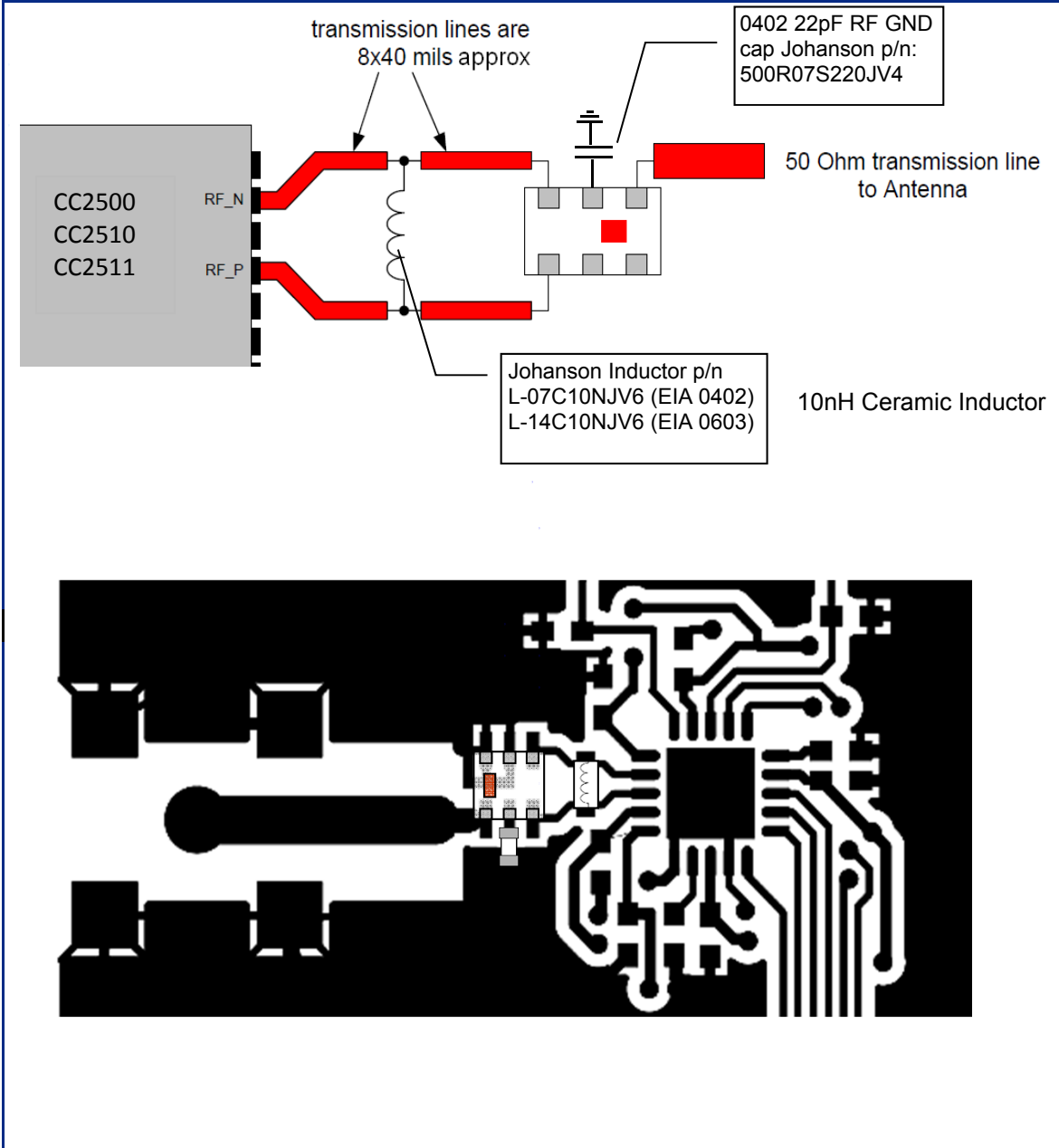
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Recommended Layout



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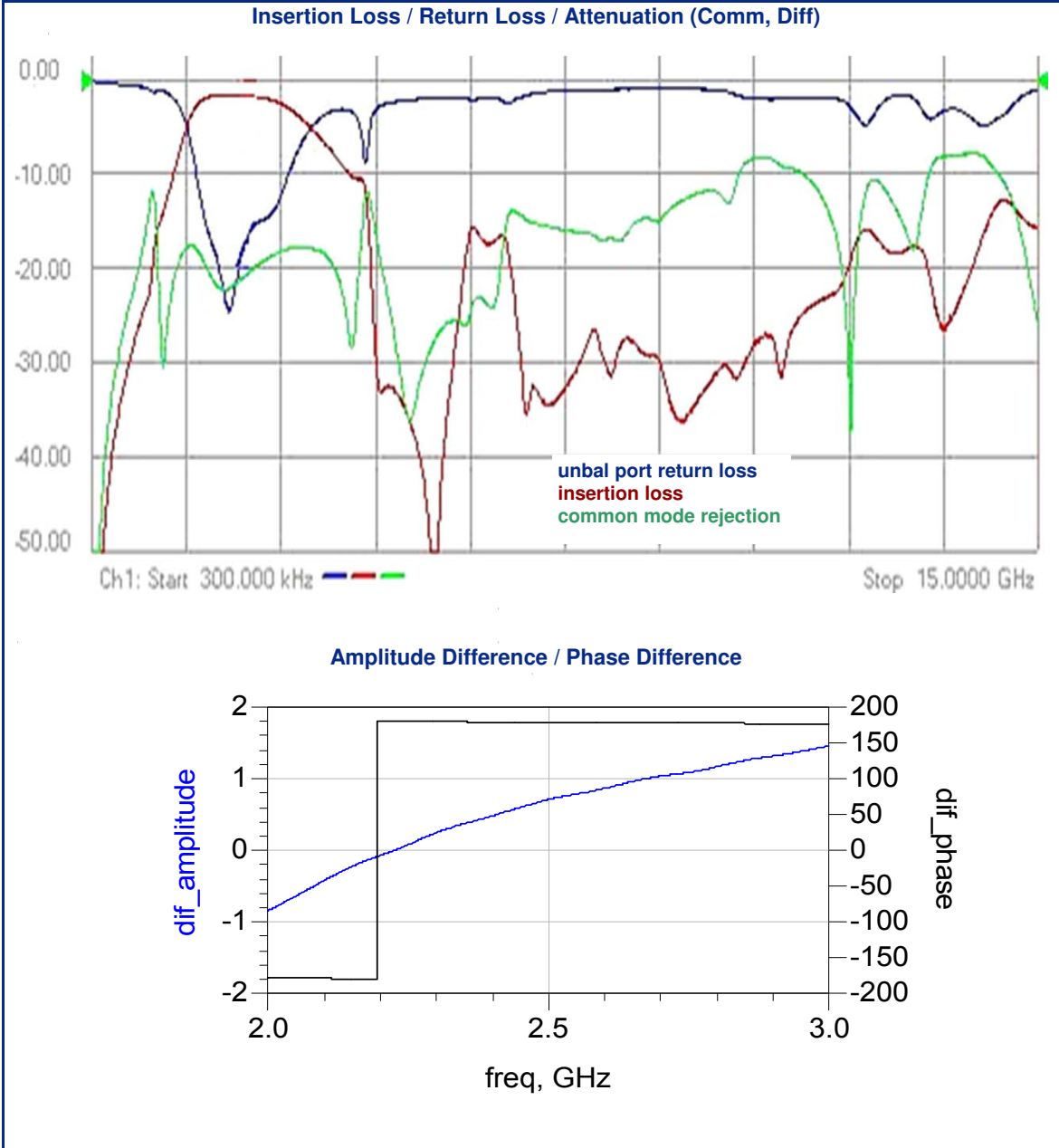
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Typical Electrical Performance (T=25°C)



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