

# "High Frequency Ceramic Solutions"

## 2.45 GHz Balun

Detail Specification

P/N 2450BL15B100

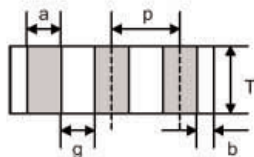
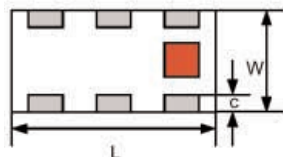
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Part Number	Frequency (MHz)	Impedance Unbal. / Bal.	Insertion Loss	Return Loss	Phase Difference	Amplitude Difference
2450BL15B100_	2400 - 2500	50/100 $\Omega$	1.0 dB max.	9.5 dB min.	180°±10°	2.0 dB max.

Input Power	Impedance	Operating Temperature Range	Reel Qty
3 Watts max	50 /100 $\Omega$	-40 to +85°C	4,000

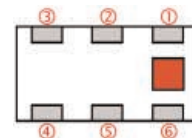
### Mechanical Dimensions

	L	W	T	a	b	c	g	p
Inches	0.079 ± .004	0.049 ± .004	0.034 ± .004	0.012 ± .004	0.008 ± .004	0.012 + .004/- .008	0.014 ± .004	0.026 ± .002
mm	2.0 ± 0.1	1.25 ± 0.1	0.85 ± 0.1	0.30 ± 0.1	0.20 ± 0.1	0.30+0.1/-0.2	0.35 ± 0.1	0.65 ± 0.05



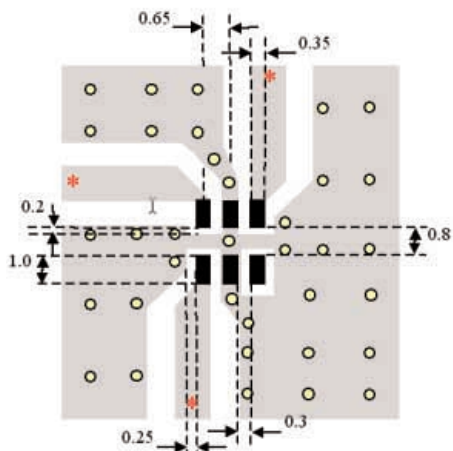
### Terminal Configuration

1 Unbalanced Port	4 Balanced Port
2 GND or DC Feed	5 GND
3 Balanced Port	6 NC



### Mounting Considerations




#### Without DC feed



Mount devices with colored mark facing up.

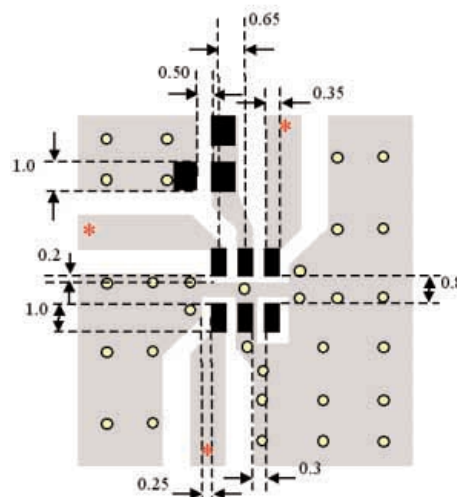
\* Line width should be designed to provide 50 $\Omega$  impedance matching characteristics.

By-pass capacitor(s) should be connected when feeding DC power.

-  Solder Resist
-  Land
-  Through-hole ( $\phi$  0.3)

Units: mm

#### With DC feed



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### P/N 2450BL15B100 Balun Typical **Return Loss** & Insertion Loss

