

# "High Frequency Ceramic Solutions"

## 5.5 GHz Balun

Detail Specification: 01/03/03

P/N 5512BL15B100

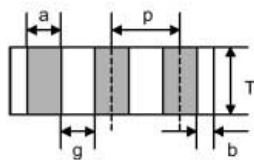
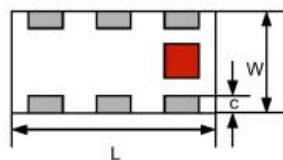
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Part Number	Frequency (MHz)	Impedance Unbal. / Bal.	Insertion Loss	Return Loss	Phase Difference	Amplitude Difference
5512BL15B100_	5150 - 5875	50/100 $\Omega$	1.0 dB max.	9.5 dB min.	180° $\pm$ 10°	2.0 dB max.

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

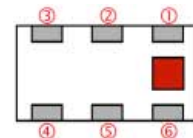
### Mechanical Dimensions

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



### Terminal Configuration

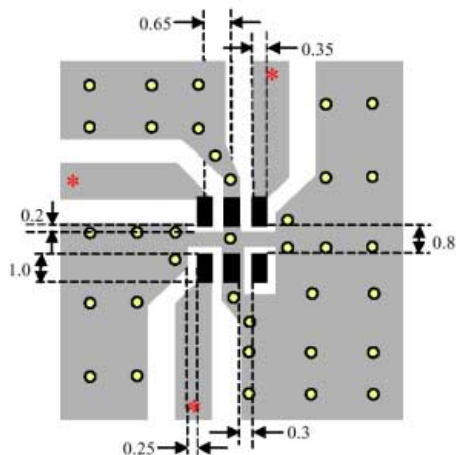
1 Unbalanced Port	4 Balanced Port
2 GND or DC Feed	5 GND
3 Balanced Port	6 NC



### Mounting Considerations

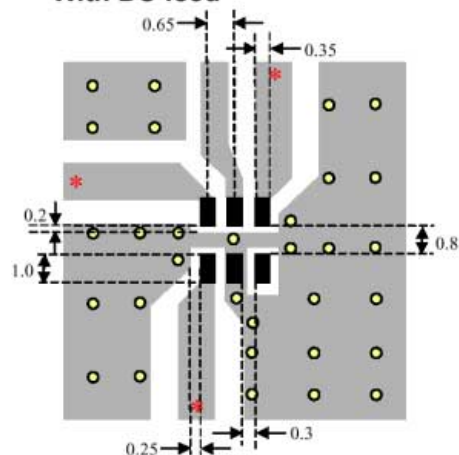
Mount devices with colored mark facing up.




#### Without DC feed



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

#### With DC feed



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

Units: mm

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### P/N 5512BL15B100 Balun Typical **Return Loss** & **Insertion Loss**

