BL2450K08054T BALUN SPECIFICATION

Rev. A

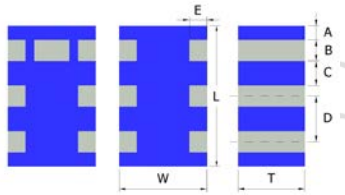
PRODUCT FEATURES

1. Surface mount ceramic balun with a small size of 2.00 x 1.25 x 0.95 mm (0805 size)..
2. Low insertion loss and inband amplitude/phase imbalance.
3. Highly stable under temperature and humidity changes.
4. Superior performance in a compact size, RoHS compliant.

RF CHARACTERISTICS

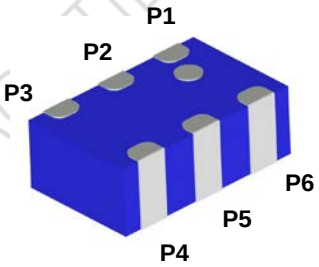
P/N: BL2450K08054T	Specification
Working Frequency Range	2450 ± 50 MHz
Insertion Loss (dB)	1.0
Unbalanced Impedance (Ω)	50
Balanced Impedance (Ω)	200
Return Loss (dB) Min.	10
Amplitude Balance (dB)	2.0
Phase Balance (degree)	180˚± 10˚
Operation Temperature Range	-40˚C to +85˚C

PHYSICAL DIMENSIONS



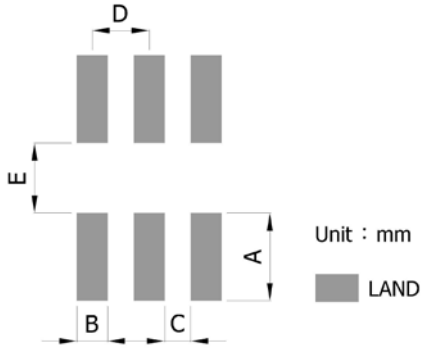
	Dimension (mm)
L	2.00 ± 0.15
W	1.25 ± 0.15
T	0.95 ± 0.10
A	0.20 ± 0.20
B	0.30 ± 0.20
C	0.35 ± 0.20
D	0.65 ± 0.20
E	0.25 ± 0.15

TERMINAL CONFIGURATION



PIN	Definition	PIN	Definition
P1	Unbalance Port	P4	Balance Port
P2	DC or GND	P5	GND
P3	Balance Port	P6	NC

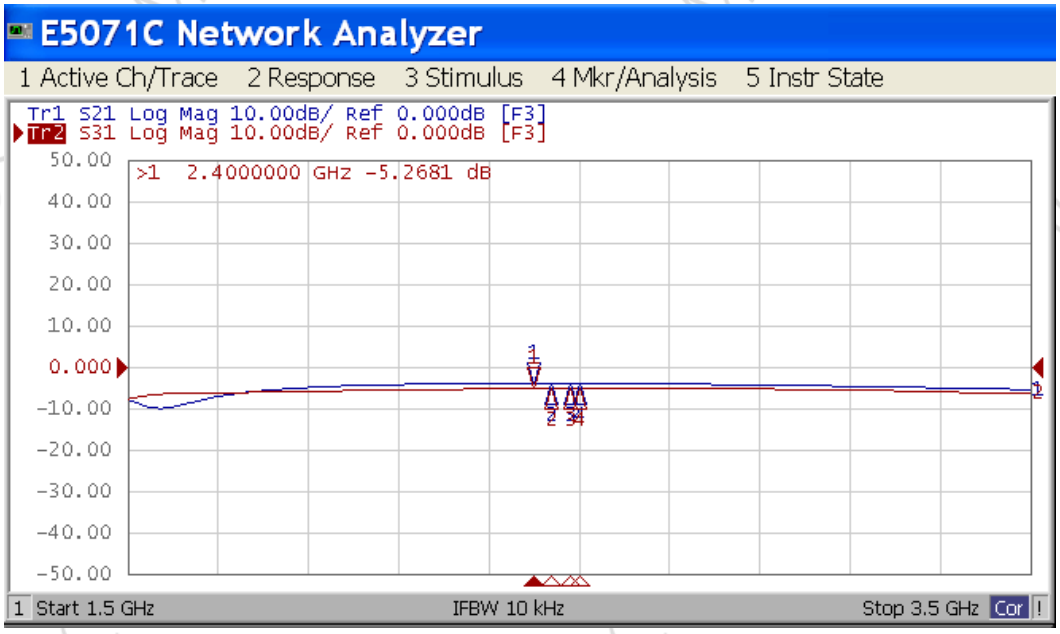
PCB DESIGN/LAYOUT CONSIDERATION

Figure	Symbol	Dimension (mm)
	A	1.00 ± 0.10
	B	0.35 ± 0.10
	C	0.30 ± 0.10
	D	0.65 ± 0.10
	E	0.80 ± 0.10
	Trace impedance must be 50Ω. The trace width is a dependent of PCB material and its thickness.	

TEST DATA

Typical RF Performance

(1). Amplitude balance



(2). Phase balance

