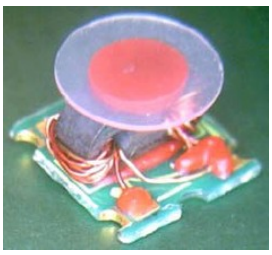
RF Balun Transformer

EBG9210-D001384

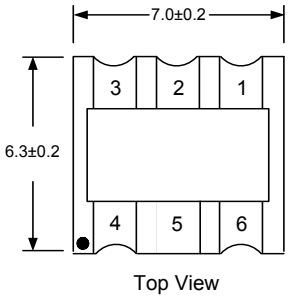
2020-03-23 Rev. 0

75Ω 1:1 Transmission Line Transformer 5-1250MHz

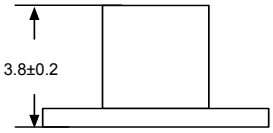


RoHS COMPLIANT

Outline Drawing(mm)

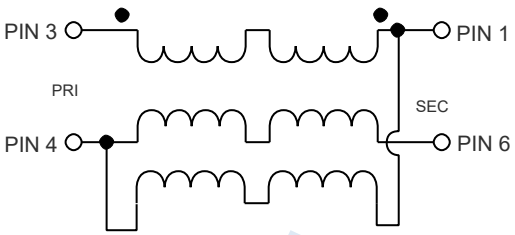


Top View

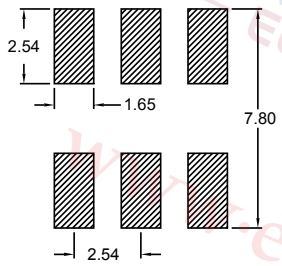


Electrical structure

Fig G



Recommended layout(mm)



Pin Connections

Input	3
Output 1	1
Output 2	6
Ground	4
Not Used	2、5

Features

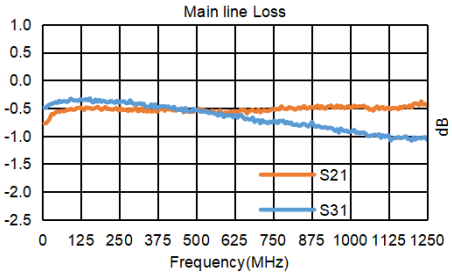
- Excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 3 deg. typ. in 1 dB bandwidth
- RF Power, 0.5W
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃

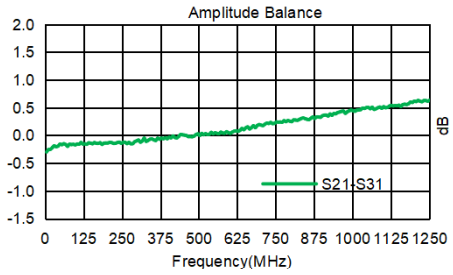
Applications

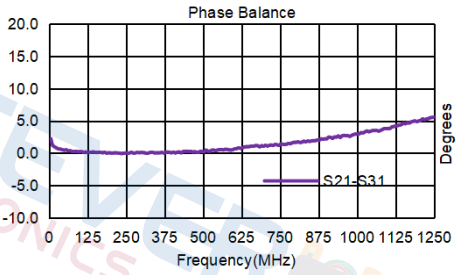
- Impedance matchin
- Balanced amplifie
- Balun
- Cellula and VHF

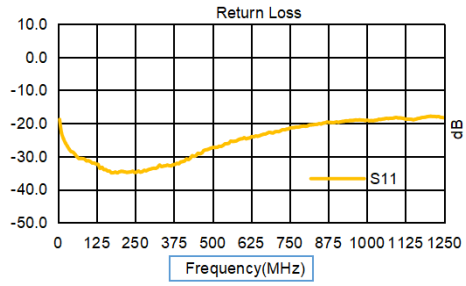
Electrical Specifications:TA=25℃, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin3-1)	5-1250MHz	dB	—	0.5	1.0
Main line Loss (Pin3-6)	5-1250MHz	dB	—	0.8	1.8
Amplitude Balance	5-1250MHz	dB	0.0	0.5	1.2
Phase Balance	5-1250MHz	°	0.0	3.0	10.0
Input Return Loss(Pin4)	5-1250MHz	dB	16.0	20.0	—

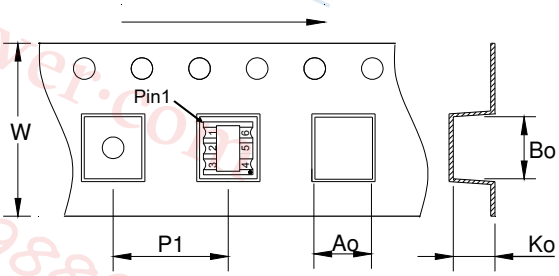








Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	7.20
Bo	mm	8.10
Ko	mm	3.80