

Power Splitter/Combiner

EDC3142-G108908

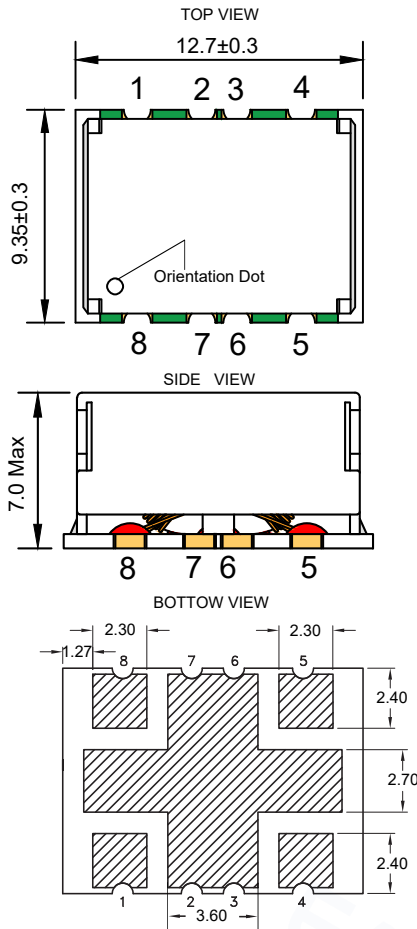
2024-04-18 Rev. 0



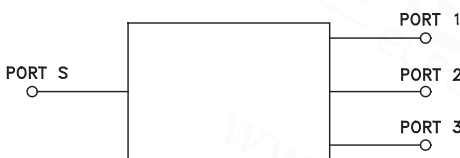
50Ω 3 Way-0° Power Divider

5-1450MHz

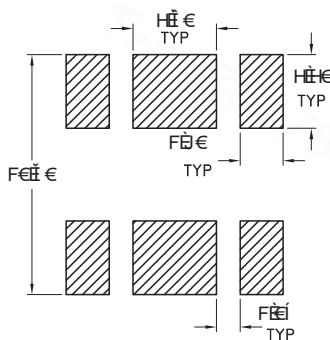
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

SUM PORT	8
PORT 1	1
PORT 2	4
PORT 3	5
GROUND	2,3,6,7

Features

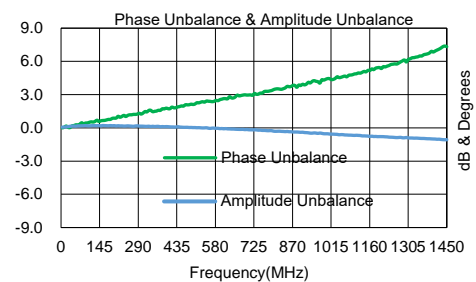
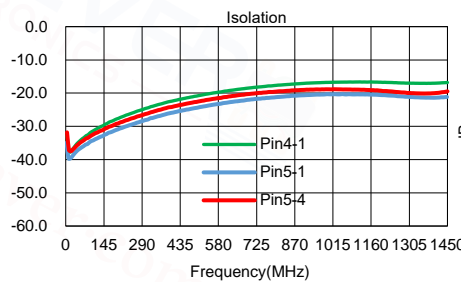
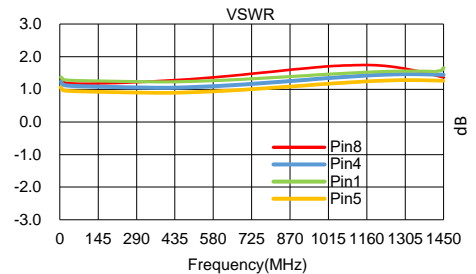
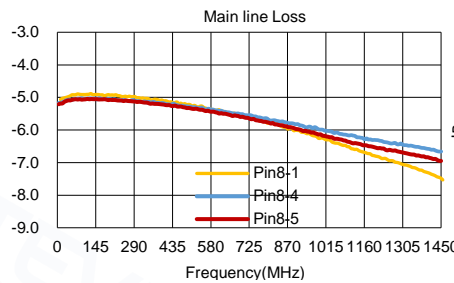
- RF Power, 1W Max
- Internal Dissipation , 0.15W Max
- Operating temperature range:-40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free

Applications

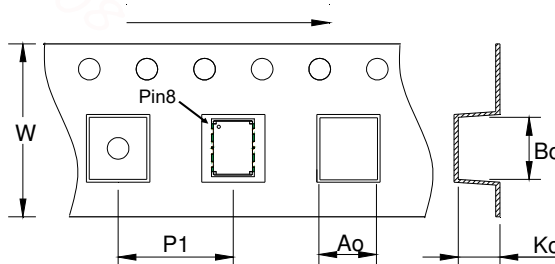
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differentially Suited Modulator/demodulator and Active Mixers.

Electrical Specifications:TA=25℃, 0dBm, Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss Above4.8dB	5-1450MHz	dB	—	2.2	3.3
Isolation	5-1450MHz	dB	13.0	19.0	—
Phase Unbalance	5-1450MHz	dB	—	5.0	9.0
Amplitude Unbalance	5-1450MHz	dB	—	0.5	0.9
VSWR (Port S)	5-1450MHz	dB	—	1.65	1.80
VSWR (Port 1-3)	5-1450MHz	dB	—	1.20	1.35



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	250
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	16.00
Ao	mm	12.30
Bo	mm	15.50
Ko	mm	7.40