

# Power Splitter/Combiner

## EDC8109-G115842

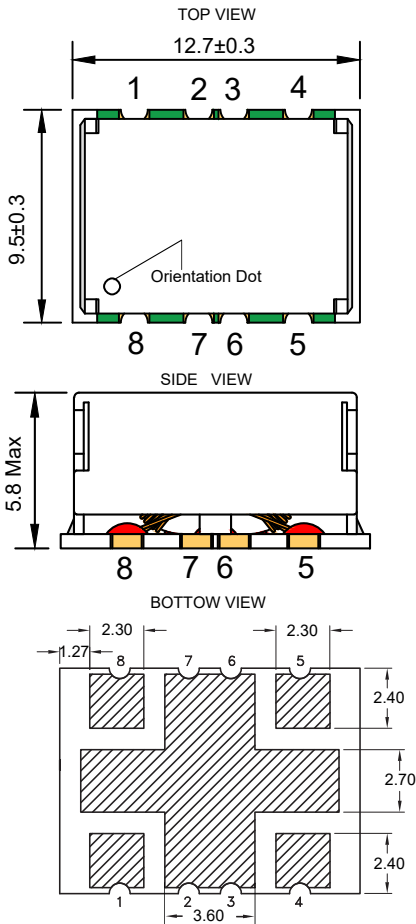
2024-06-19 Rev. 0



50Ω 3 Way-0° Power Divider

5-200MHz

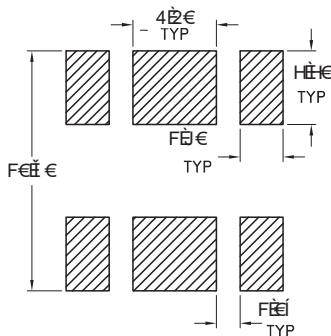
### Outline Drawing(mm)



### 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

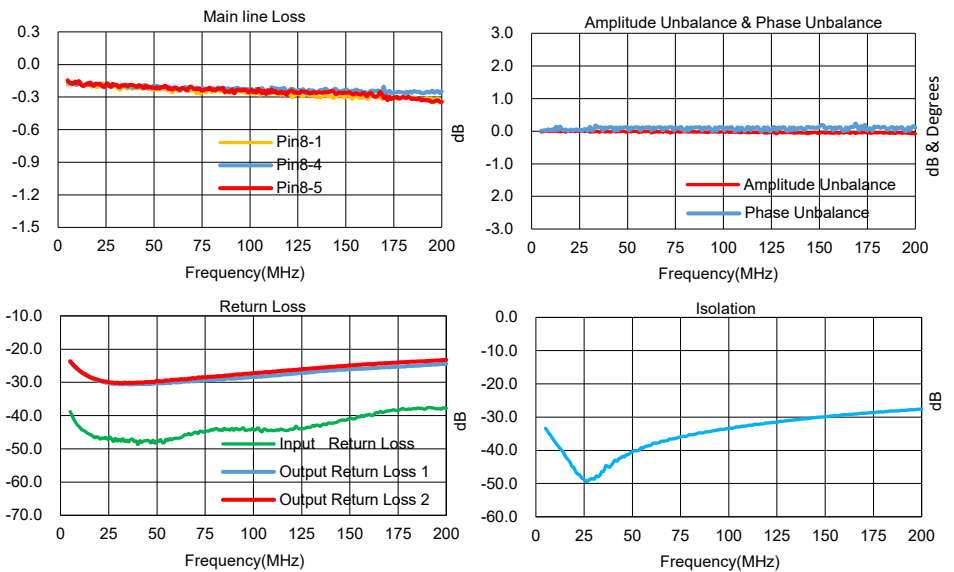
- RF Power, 1W Max
- Internal Dissipation , 0.15W Max
- Operating temperature range:-40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free

### Applications

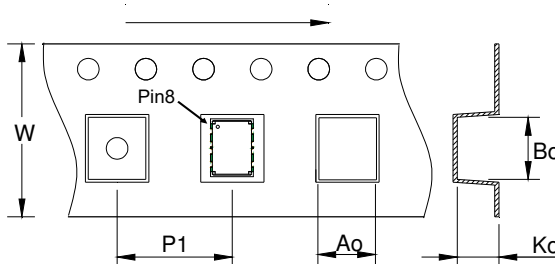
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differentially Suited Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss	5-200MHz	dB	—	0.28	0.5
Isolation	5-200MHz	dB	24.0	28.0	—
Phase Unbalance	5-200MHz	dB	—	0.2	1.0
Amplitude Unbalance	5-200MHz	dB	—	0.05	0.1
Input Return Loss	5-200MHz	dB	28.0	38.0	—
Output Return Loss 1	5-200MHz	dB	20.0	25.0	—
Output Return Loss 2	5-200MHz	dB	20.0	25.0	—



### 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