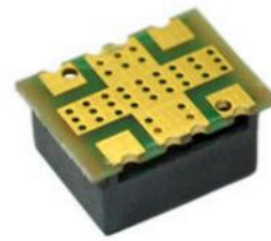


RF Directional Coupler

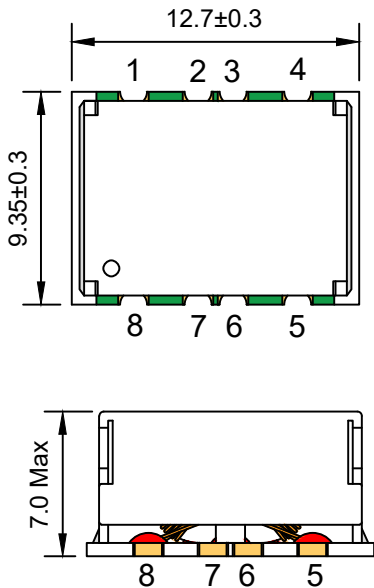
ECJ2001-C093848

2023-03-29 Rev. 0

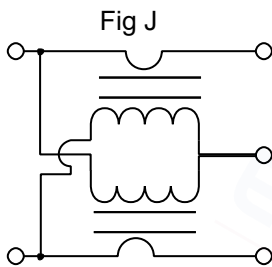


50Ω 20dB Directional Coupler 1.5-60MHz

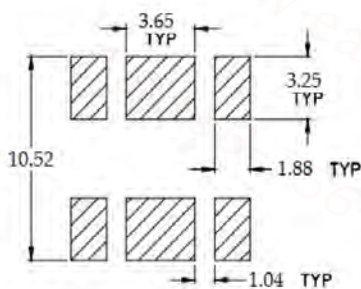
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

INPUT	8
OUTPUT	1
COUPLED(forward)	5
COUPLED(reverse)	4
GROUND	2,3,6,7

Features

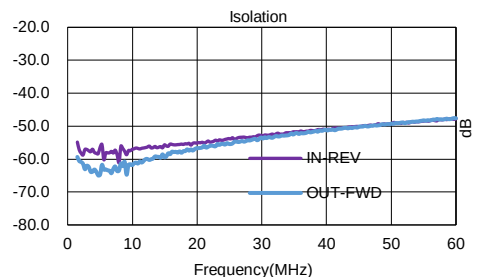
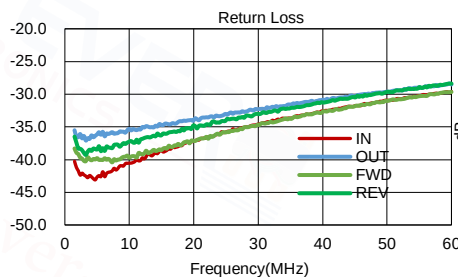
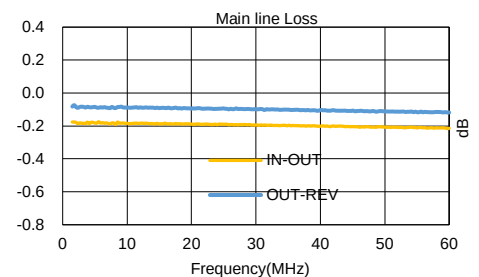
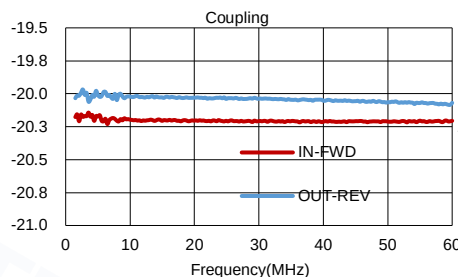
- Input Power: 15W Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

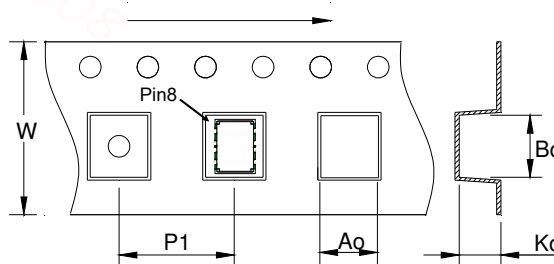
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin8-5)	1.5-60MHz	dB	19.5	20.0	20.5
Main line Loss(pin8-1)	1.5-60MHz	dB	—	0.20	0.40
Input Return Loss(pin 8)	1.5-60MHz	dB	26.0	32.0	—
Coupling Return Loss(pin5)	1.5-60MHz	dB	26.0	32.0	—
Output Return Loss(pin1)	1.5-60MHz	dB	26.0	32.0	—
Isolation(pin5-1)	1.5-60MHz	dB	45.0	50.0	—



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