

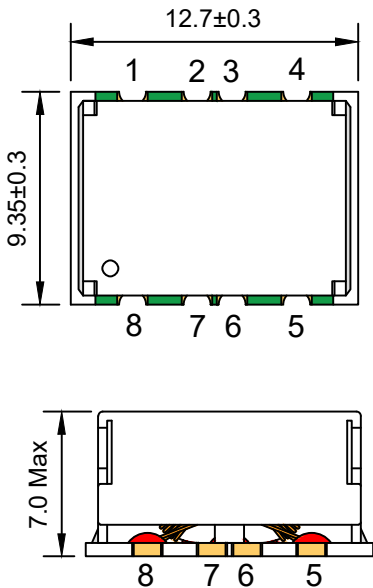
# RF Directional Coupler

## AWJ2001-C093318

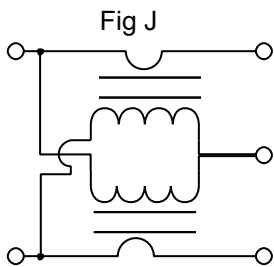


### 50Ω 20dB Directional Coupler 10-540MHz

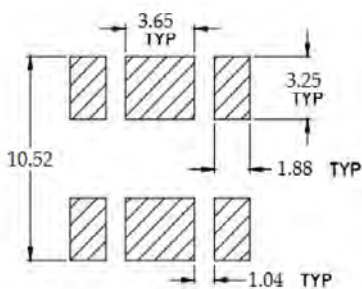
#### Outline Drawing(mm)



#### Electrical structure



#### Recommended layout(mm)



#### Pin Connections

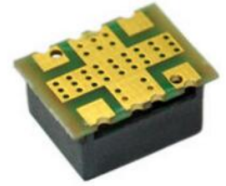
INPUT	8
OUTPUT	1
COUPLED(forward)	5
COUPLED(reverse)	4
GROUND	2,3,6,7

#### Features

- Input Power: 25W 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

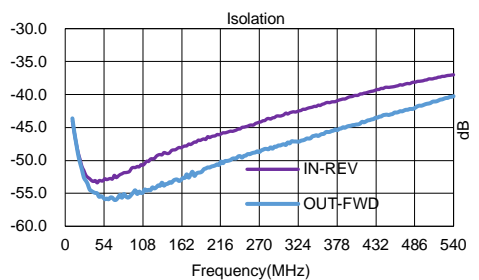
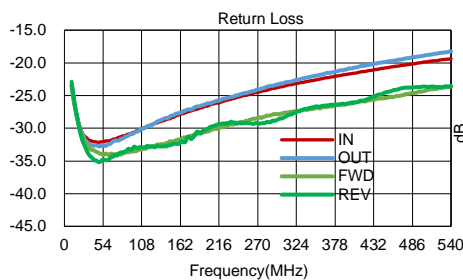
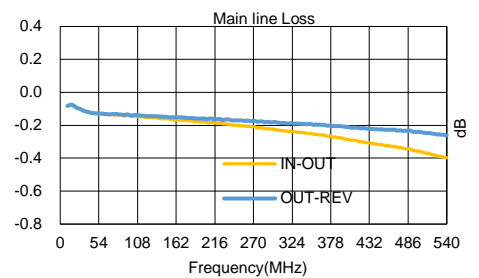
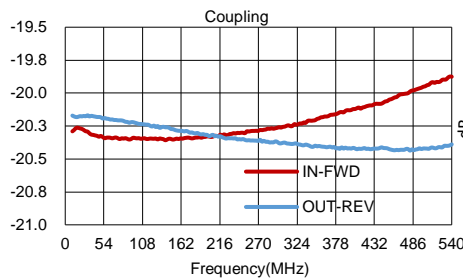
#### Applications

- 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.

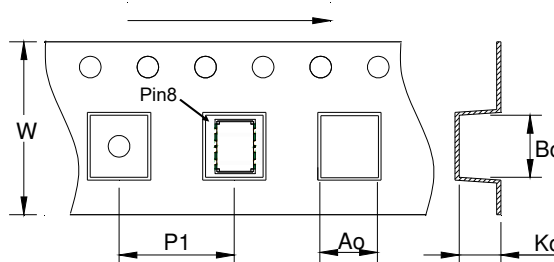


#### Electrical Specifications:TA=25°C, 0dBm, Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin8-5)	30-540MHz	dB	19.5	20.0	20.5
Main line Loss(pin8-1)	30-540MHz	dB	—	0.30	0.45
Input Return Loss(pin 8)	30-540MHz	dB	18.0	20.0	—
Coupling Return Loss(pin5)	30-540MHz	dB	22.0	25.0	—
Output Return Loss(pin1)	30-540MHz	dB	18.0	20.0	—
Isolation(pin5-1)	30-540MHz	dB	38.0	42.0	—



#### 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



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