

# RF Directional Coupler

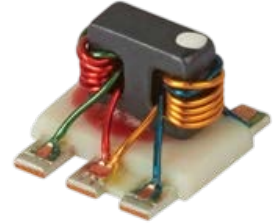
## AW2F-617PT-1601-C331



75Ω 16dB Directional Couplers 5-2250MHz

### Features:

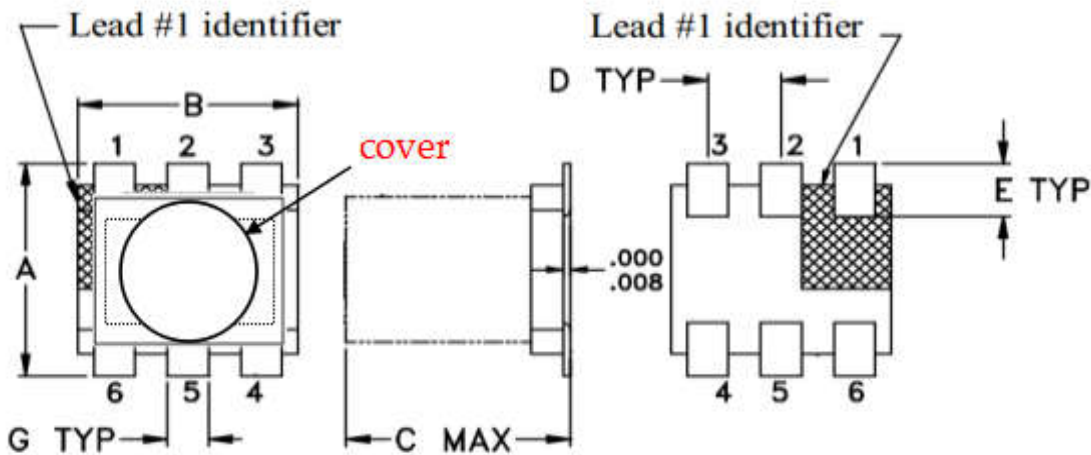
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Operating temperature range: -20°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C



### Applications:

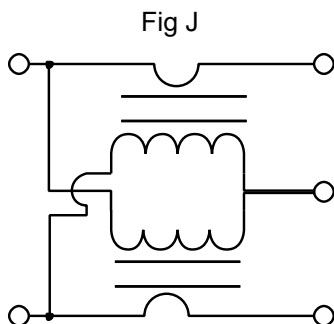
- ◆ For Docsis 3.0 & 3.1 Cable Modem.
- ◆ For Wideband Push-pull Amplifiers.
- ◆ For CATV Amplifiers Module & Set top box.
- ◆ For CATV Optical Receivers and Amplifiers.
- ◆ For VHF/UHF Transmitters and Push-pull Amplifiers.

### Dimension diagram (Unit:mm) :

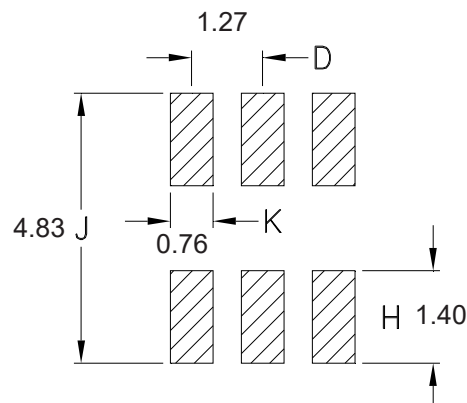


A=4.20±0.20 B=3.80±0.20 C=3.50 Max D=1.27±0.05 E=1.00±0.05

### Electrical structure:



### Recommended layout(mm):



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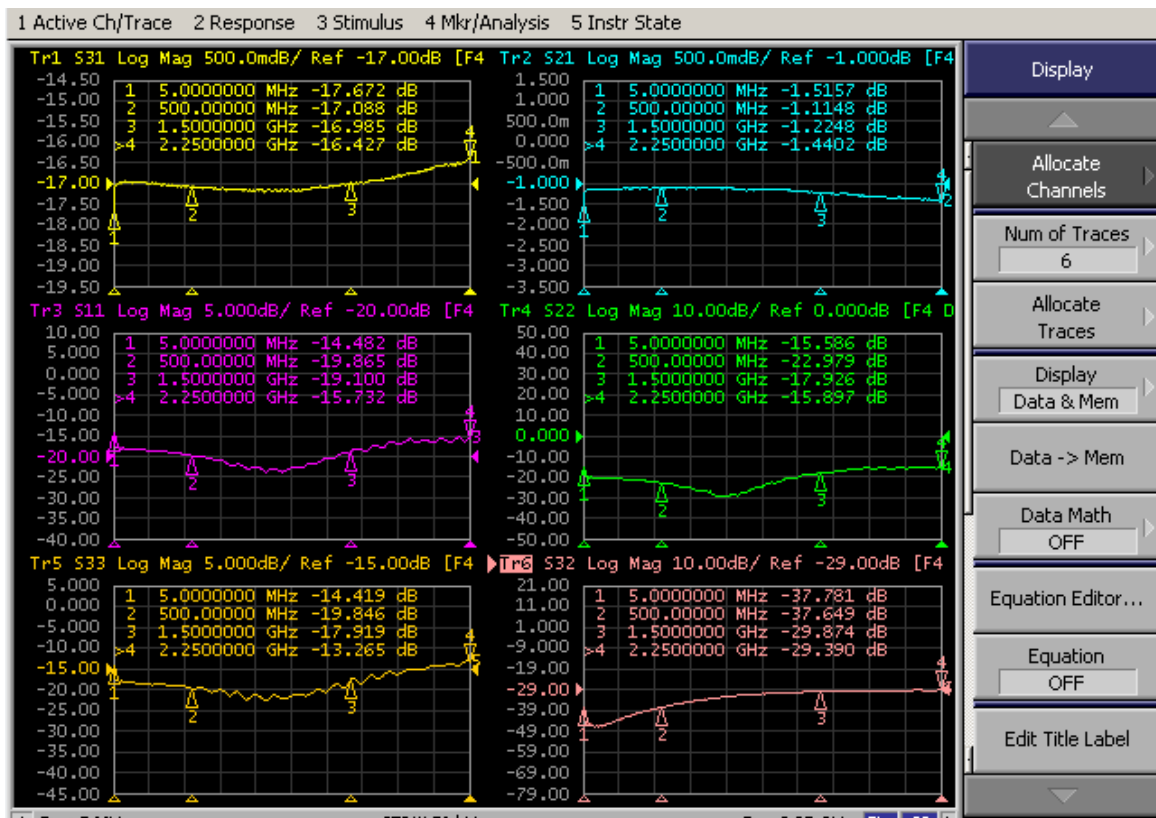
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Pin configuration:

Input	3
Coupling	1
Output	4
Ground	2
External 75 $\Omega$	6

Sample test data sheet:



Electrical Specifications:  $T_A=25^{\circ}\text{C}$ ,  $0\text{dBm}$ ,  $Z_0=75\Omega$ :

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss	5-2250MHz	dB	—	1.0	2.0
Coupling	5-2250MHz	dB	—	16.5	19.0
Input Return Loss	5-2250MHz	dB	11.0	20.0	—
Output Return Loss	5-2250MHz	dB	12.0	23.0	—
Coupling Return Loss	5-2250MHz	dB	10.0	20.0	—
Isolation	5-2250MHz	dB	22.0	30.0	—

