Directional Coupler

CP231

RFHIC

Product Features

- Passive Integration on Silicon
- Low Insertion Loss
- High Isolation
- Solder Pad
- Low Cost

Application

- Repeater
- Base Station
- RF Sub-Systems



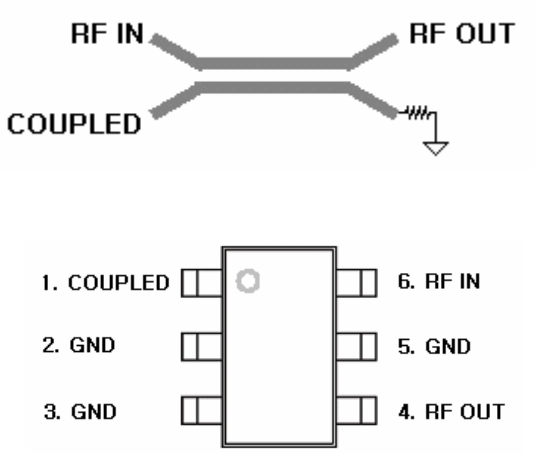
Description

The CP Series is a monolithic directional coupler for low cost wireless applications.

Specifications at 25℃, 50Ω in/out impedance

PARAMETER	Units	Min	Typ	Max
Frequency Range	MHz	2200		2400
Insertion Loss	dB		0.3	0.5
Input Return Loss	dB	20	30	
Output Return Loss	dB	20	30	
Coupling	dB	13.5	14.5	15.5
Coupling Return Loss	dB	15	18	
Isolation	dB	20	24	
Remarks	MHz	2300		

Block Diagram & Pin Out

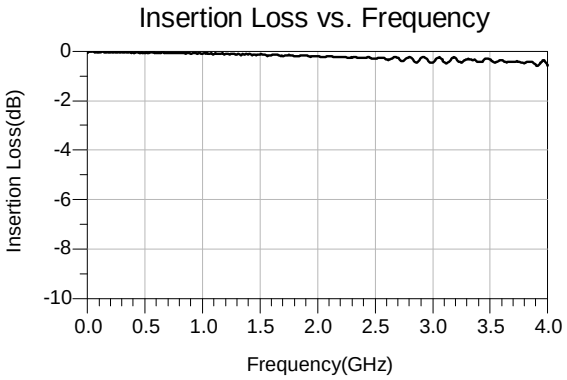


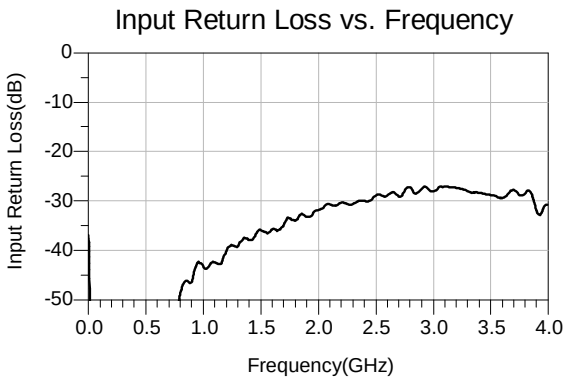
Absolute Maximum Ratings

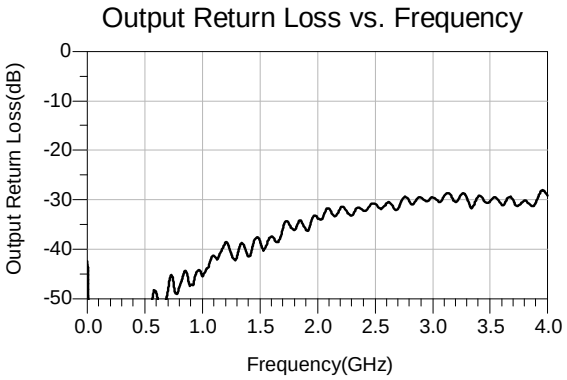
Parameter	Value
Input Power	1 W
Operating Temperature	-40 ~ +85℃
Storage Temperature	-65 ~ + 150℃

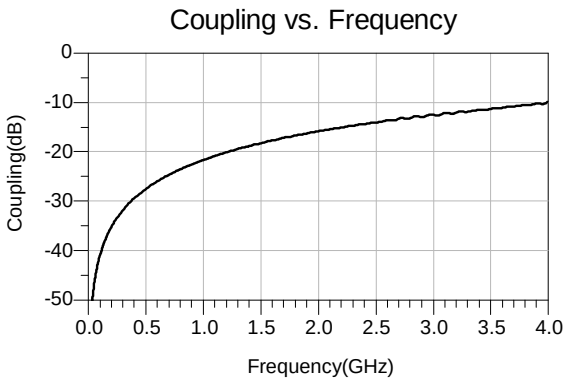
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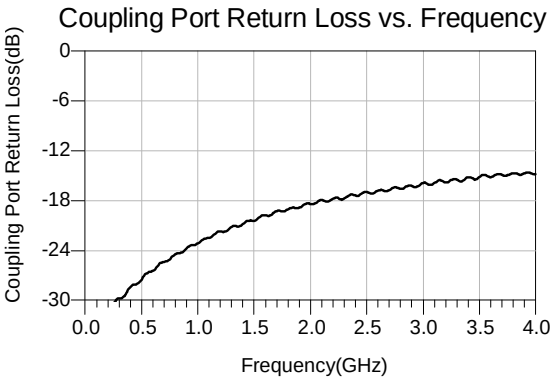
Typical Performance Data at 25℃ (SOT23-6L Package)

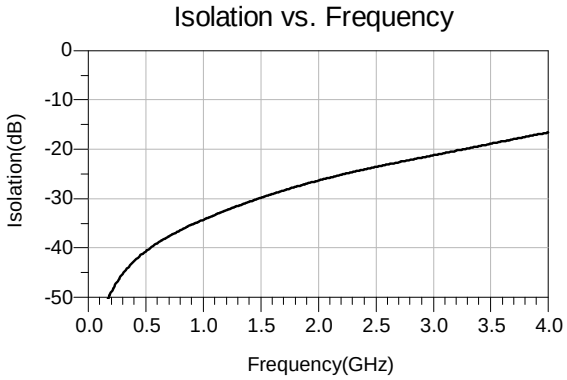




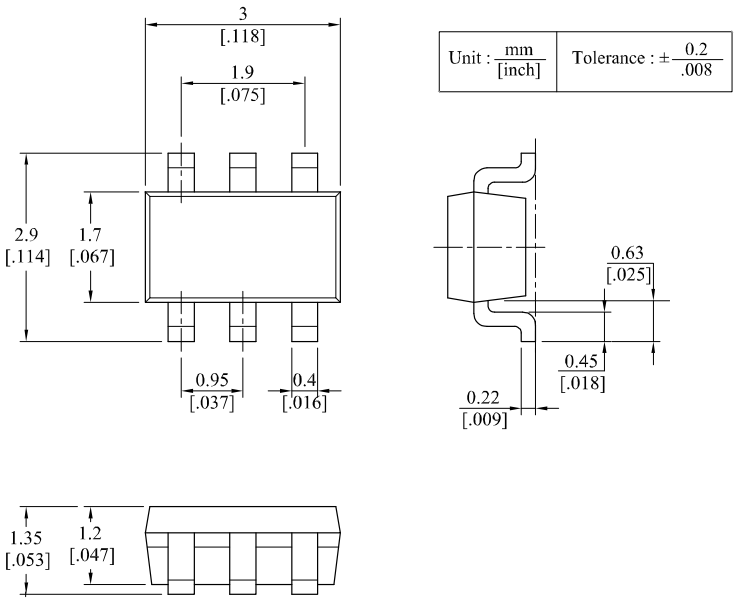




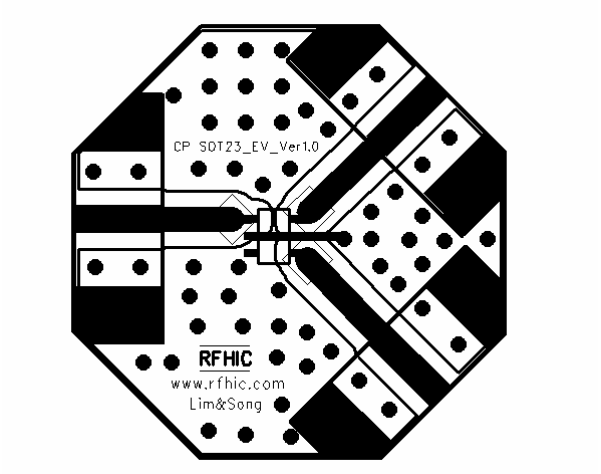




Package Dimensions (Type: SOT23-6L)



PCB Evaluation Board Layout Pattern



PCB material (FR4), PCB thickness (0.8t), Via hole (Φ0.7)

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