

Product Features

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

Application

- Repeater
- Base Station
- RF Sub-Systems



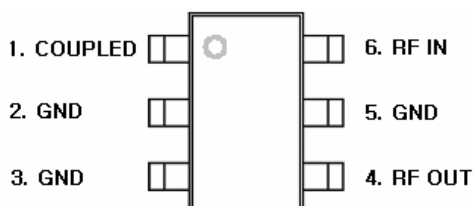
Description

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

Specifications at 25 °C, 50Ω in/out impedance

PARAMETER	Units	Min	Typ	Max
Frequency Range	MHz	1900		2200
Insertion Loss	dB		0.3	0.5
Input Return Loss	dB	25	40	
Output Return Loss	dB	25	35	
Coupling	dB	13	14	15
Coupling Return Loss	dB	18	23	
Isolation	dB	18	23	
Remarks	MHz	2100		

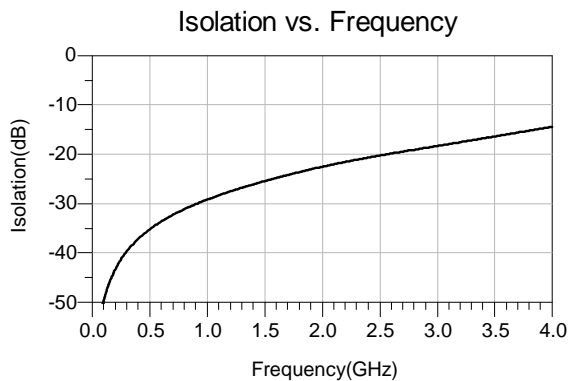
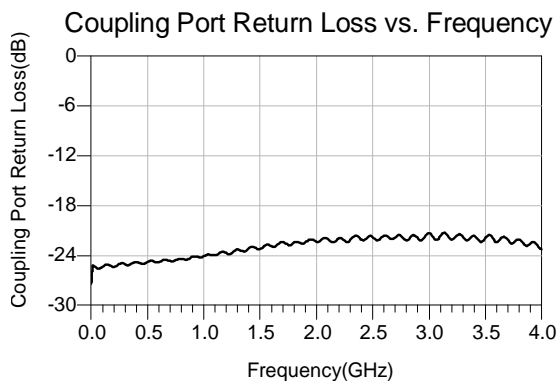
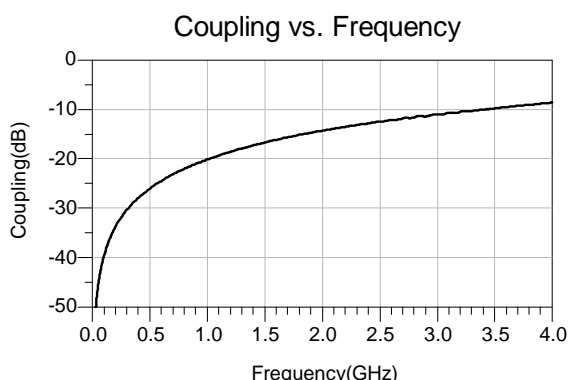
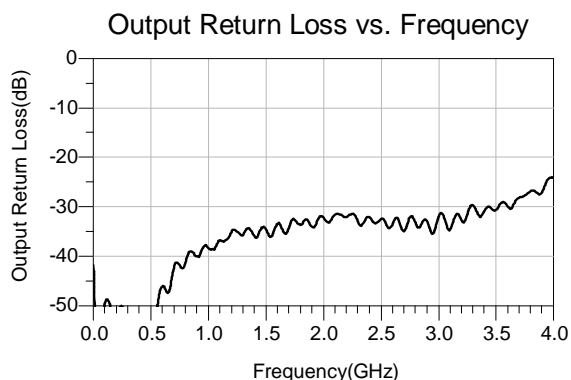
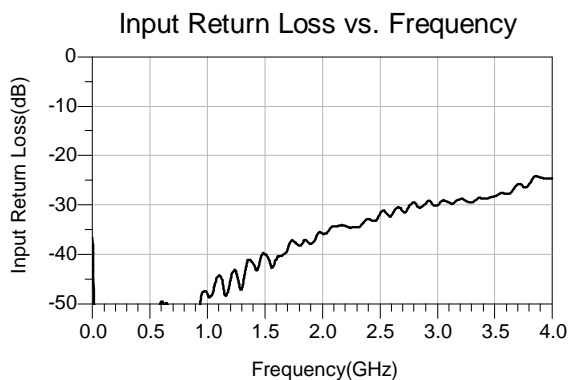
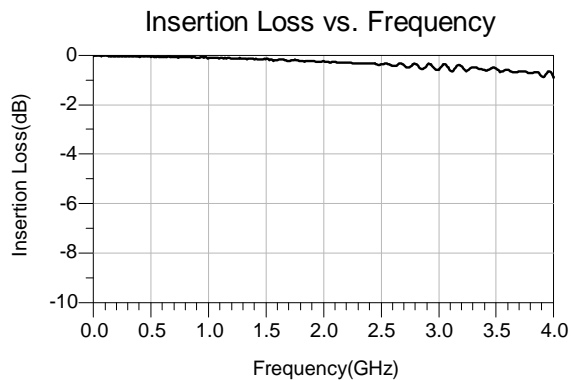
Block Diagram & Pin Out



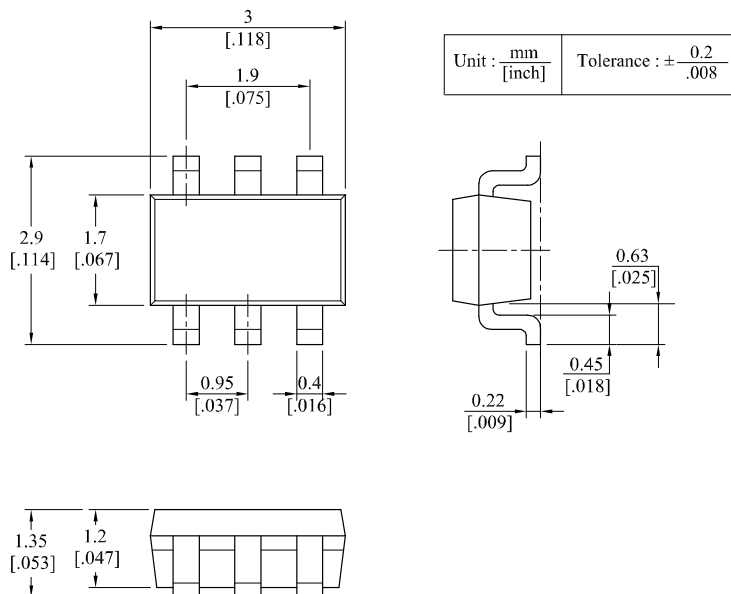
Absolute Maximum Ratings

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

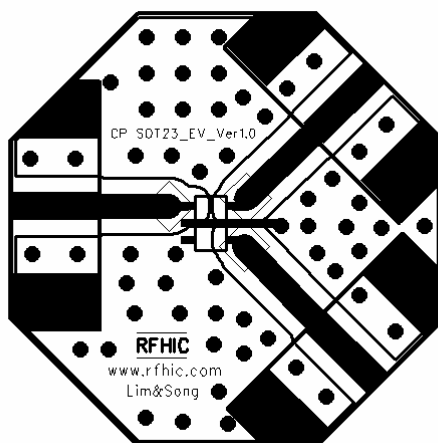
Typical Performance Data at 25°C (SOT23-6L Package)



Package Dimensions (Type: SOT23-6L)



PCB Evaluation Board Layout Pattern



PCB material (FR4), PCB thickness (0.8t), Via hole ($\varnothing 0.7$)

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