

Product Features

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

Application

- Repeater
- Base Station
- RF Sub-Systems



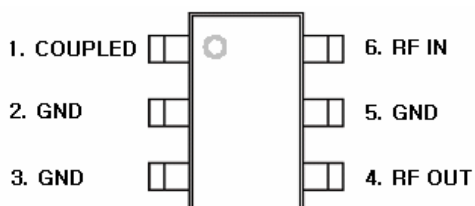
Description

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	3400		3700
Insertion Loss	dB		0.3	0.5
Input Return Loss	dB	20	25	
Output Return Loss	dB	20	30	
Coupling	dB	14	15	16
Coupling Return Loss	dB	9	12	
Isolation	dB	18	22	
Remarks	MHz	3500		

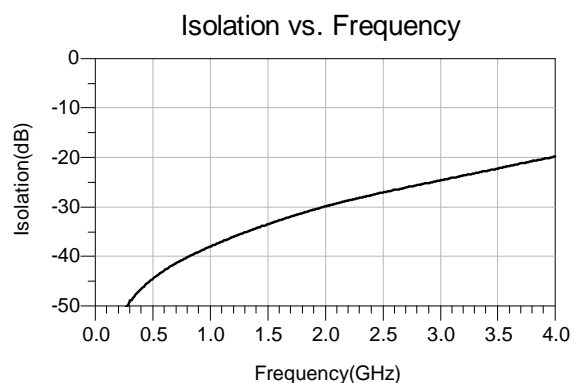
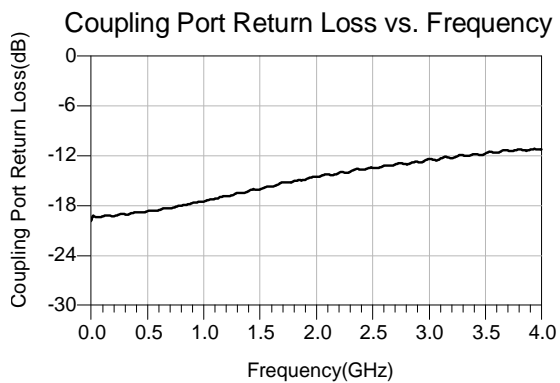
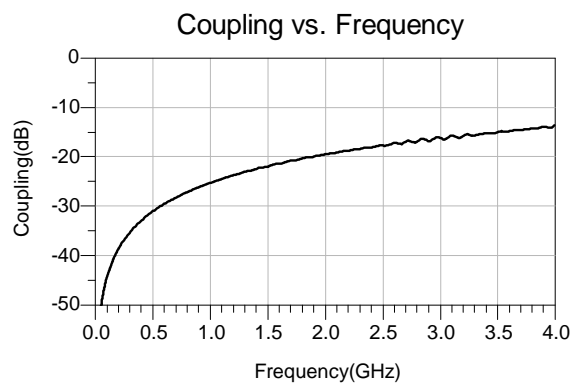
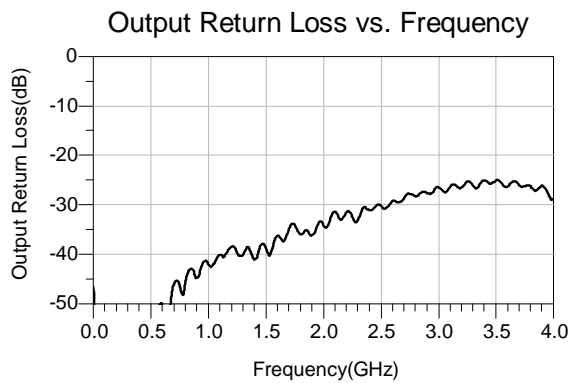
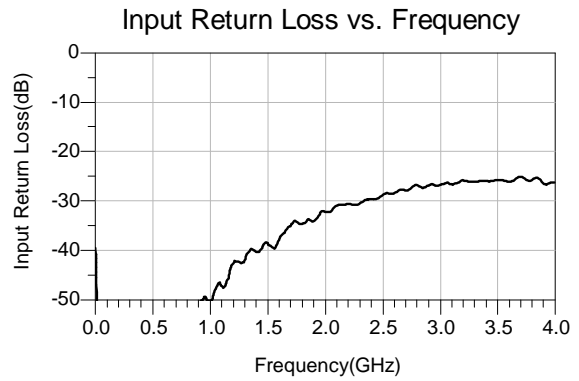
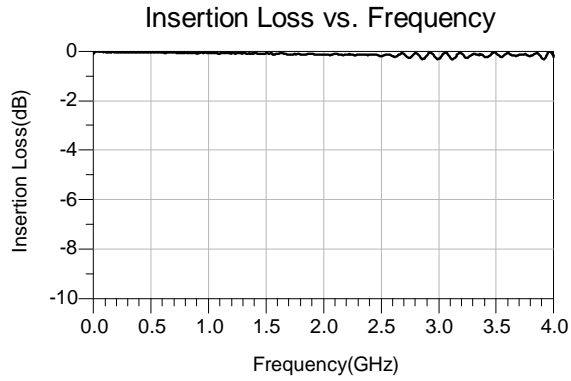
Block Diagram & Pin Out



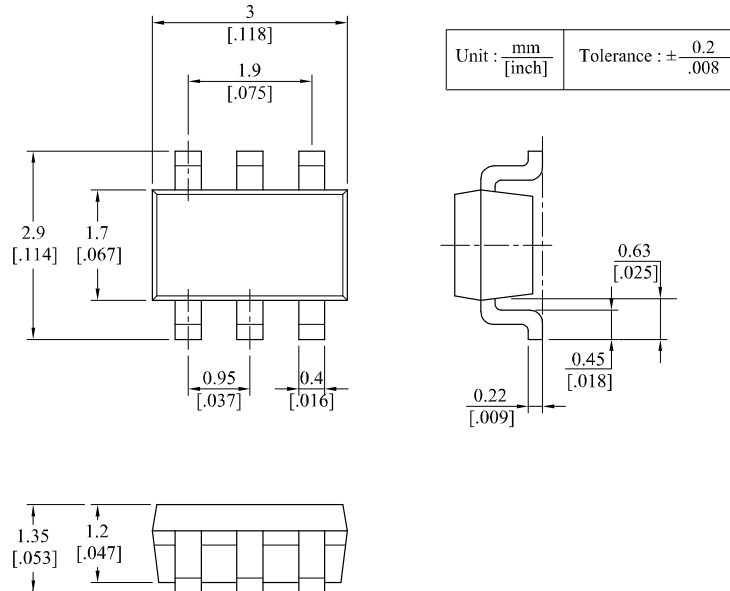
Absolute Maximum Ratings

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

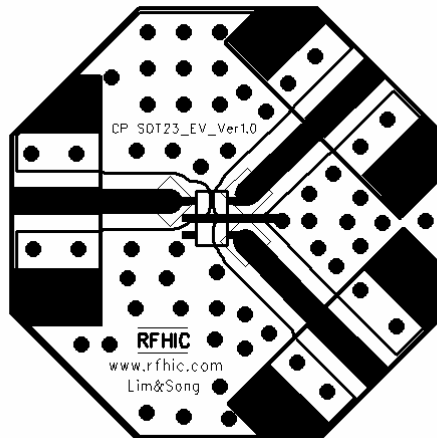
Typical Performance Data at 25°C (SOT23-6L Package)



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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