

# **RFCP5742**

# 10dB SURFACE MOUNT COUPLER

RoHS Compliant and Pb-Free Product Package: \$18

## **Features**

- Frequency Range: 5 MHz to 1200 MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and -Reel
- 75Ω Characteristic Impedance



# **Product Description**

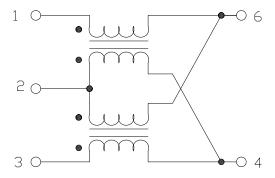
The RFCP5742 Coupler is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wireless, and other commincations systems. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

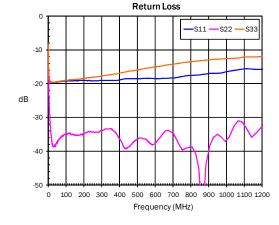
## **Specifications**

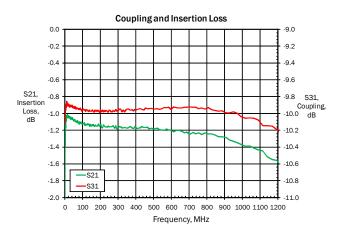
Parameter	Specification			Unit
	Min.	Тур.	Max.	Offic
Frequency Range	5		1200	MHz
Nominal Coupling	9.5	10	10.5	dB
Coupling Flatness	-0.5		+0.5	dB
Insertion Loss		1.5	2.0	dB
Directivity	10	14		dB
Return Loss	11	17		dB
Nominal Impedance		75		Ω

Note: Typical values represent Mid-band performance at 25°C.

### **Schematic**

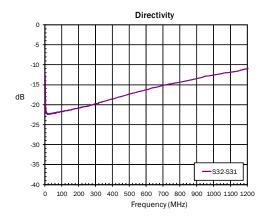


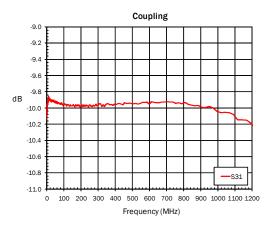




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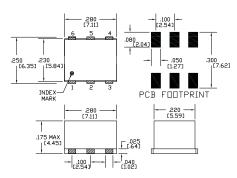


# Insertion Loss 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 Frequency (MHz)

# Pin Out

Pin	Name		
1	Input		
2	Ground		
3	Coupled		
4	Terminated		
5	NC		
6	Output		

# Package Drawing - S18



# **Absolute Maximum Ratings**

Parameter	Rating	Unit
RF Power	2	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +100	°C

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

RoHS status based on EUDirective 2002/95/EC (at time of this document revision).

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