



RoHS Compliant and Pb-Free Product

Package: **S18**

Features

- Frequency Range 5-1220 MHz
- Low Cost and RoHS Compliant
- Transmission Line Type
- Industry Standard SMT package
- 75 Ohms Characteristic Impedance

Product Description

These 75 Ohm couplers are designed for next gen CATV systems. The MRFCP6762 16 dB coupler is flat to 1.8 GHz and provides 20 dB return loss! Uniquely the 6762 also provides max throughput power with low loss and nearly 30 dB isolation! MiniRF repeatability and reliability is built into each surface mount unit.

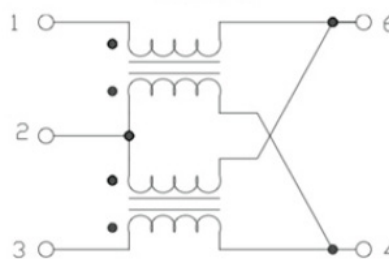
Applications

- Broadband
- Wireless Communications

Specifications

parameter	Min.	Typ.	Max	Unit
Operating Frequency Range	5		1220	MHz
Nominal Coupling	-15.5	-16	-16.5	dB
Coupling Flatness	-0.5		+0.5	dB
Insertion Loss		7	10	dB
Return Loss:				
5-10 MHz	18	20		dB
10-1220 MHz	20	23		dB
Isolation	25	35		dB
Nominal Impedance	75			Ohms

Schematic



Caution! ESD sensitive device.

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 EU Directive 2002/95/EC (at time of this document revision).

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Absolute Maximum Ratings

Parameter	Rating	Unit
Power Handling	2	Watts
Operating Temp	-40 to +85	°C
Storage Temp	-40 to +100	°C

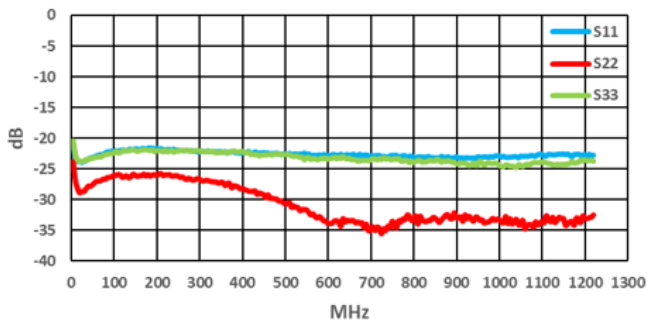


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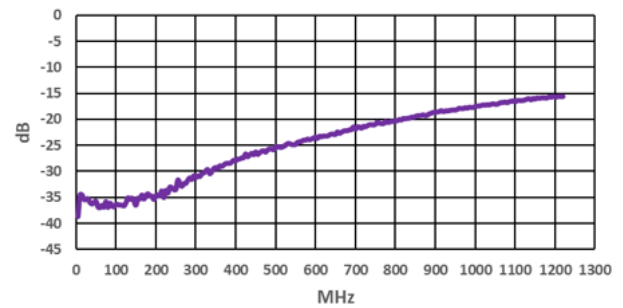
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Typical Data

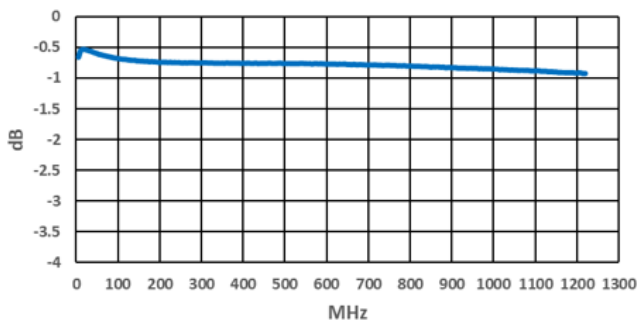
Return Loss



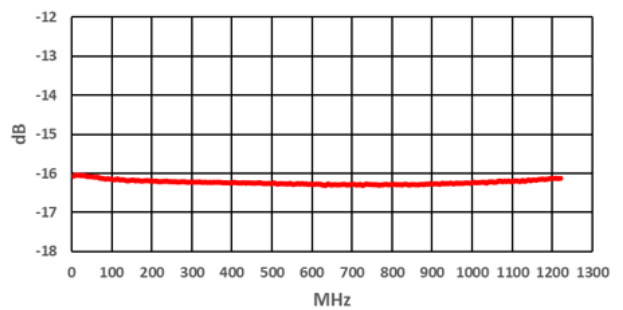
Directivity

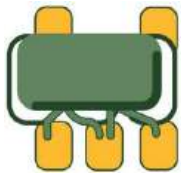


Insertion Loss



Coupling





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Pin Out

PIN	FUNCTION
1	INPUT
2	GROUND
3	COUPLED OUTPUT
4	TERMINATED ¹
5	NC
6	OUTPUT

1 - TERMINATE PIN 4 EXTERNALLY 75 OHMS TO GROUND

S18 Package Drawing

Dimensions in inches (millimeters)

