

MC0727-30 DATA SHEET

SMA Directional Coupler 30 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 50 Watts

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The MC0727-30 is a 30 dB directional coupler that operates from 0.7 to 2.7 GHz with 30 dB directivity minimum and 1.2:1 VSWR maximum. The package interface uses SMA female connectors, and is also RoHS compliant.

The MC0727-20 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratio up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	0.7		2.7	GHz
Impedance		50		Ohms
Coupling		30 ±1	1	dB
Freq. Sensitivity		±0.7		dB
Insertion Loss		0.4		dB
Directivity	20			dB
Main Line VSWR			1.2:1	
Input Power (CW)			50	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size	
Length	3.35 in [85.09 mm]
Width/Dia.	0.59 in [14.99 mm]
Height	0.43 in [10.92 mm]
Weight	0.116 lbs [52.62 g]

Configuration

Package Type	Connectorized
Input Connector	SMA Female
Output Connector	SMA Female
Coupled Connectors	SMA Female

Environmental Specifications

Temperature	
Operating Range	-55 to +85 deg C
Storage Range	-55 to +100 deg C



Features:

- Directional Coupler
- 0.7 to 2.7 GHz Frequency Range
- Coupling 30±1 dB
- Directivity > 20 dB
- VSWR < 1.2:1
- Max Power 50 Watts (CW)

Applications:

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Compliance Certifications (see product page for current document)

Plotted and Other Data

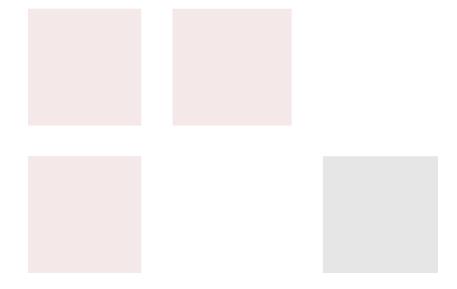
Notes:

SMA Directional Coupler 30 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 50 Watts from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Directional Coupler 30 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 50 Watts MC0727-30

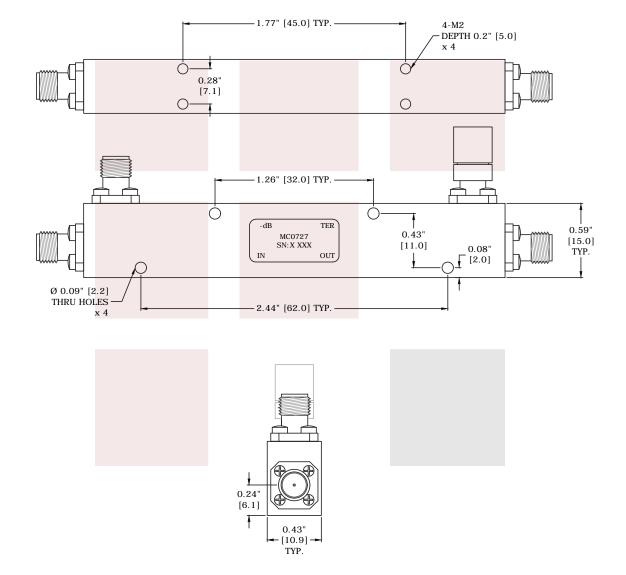
URL: https://www.fairviewmicrowave.com/sma-directional-coupler-30-db-2.7-ghz-50-watts-mc0727-30-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.









FAIRVIEW MICROWAVE INC. Allen, tx 75013 www.fairviewmicrowave.com	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
SMA Directional Coupler 30 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 50 Watts	DWG NO MC0727-30			CAGE CODE 3FKR5		
	CAD FILE 052716	SHEET	SCALE	E N/A	SIZE A	5568

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689