

MC0640-10 DATA SHEET

2.92mm Directional Coupler 10 dB Coupled Port From 6 GHz to 40 GHz Rated To 20 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 MC0640-10 is a 10 dB directional coupler that operates from 6 to 40 GHz and can handle up to 20 Watts (CW) with 8 dB directivity minimum and 2.5:1 VSWR maximum. The package interface uses 2.92mm female connectors, and is also REACH and RoHS compliant.

The MC0640-10 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratios 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.



Description	Min	Тур	Max	Units
Frequency Range	6		40	GHz
Impedance		50		Ohms
Coupling		10 ±2		dB
Freq. Sensitivity			±1.5	dB
Insertion Loss			1.75	dB
Directivity	8			dB
Main Line VSWR			2.5:1	
Input Power (CW)			20	Watts

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

Max power is rated for load VSWR better than 1.2:1.

Mechanical Specifications

Size

 Length
 1.06 in [26.92 mm]

 Width/Dia.
 0.63 in [16 mm]

 Height
 0.4 in [10.16 mm]

 Weight
 0.053 lbs [24.04 g]

Configuration

Package Type Connectorized
Input Connector 2.92mm Female
Output Connector 2.92mm Female
Coupled Connectors 2.92mm Female

Environmental Specifications

Temperature

Operating Range -25 to +80 deg C Storage Range -55 to +150 deg C

Humidity MIL-STD-202, Method 106 (90% relative

humidity, +65°C)



Features:

- Directional Coupler
- 6 to 40 GHz Frequency Range
- Coupling 10±2 dB
- Directivity > 8 dB
- VSWR < 2.5:1
- Max Power 20 Watts (CW)

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Shock MIL-STD-202, Method 213/I (100 G's, 6 ms)

Vibration MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's, 12 hours)

Altitude MIL-STD-202, Method 105/E (150,000 feet)
Thermal Shock MIL-STD-202, Method 107/B (-55°C to +85°C)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2.92mm Directional Coupler 10 dB Coupled Port From 6 GHz to 40 GHz Rated To 20 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2.92mm Directional Coupler 10 dB Coupled Port From 6 GHz to 40 GHz Rated To 20 Watts MC0640-10

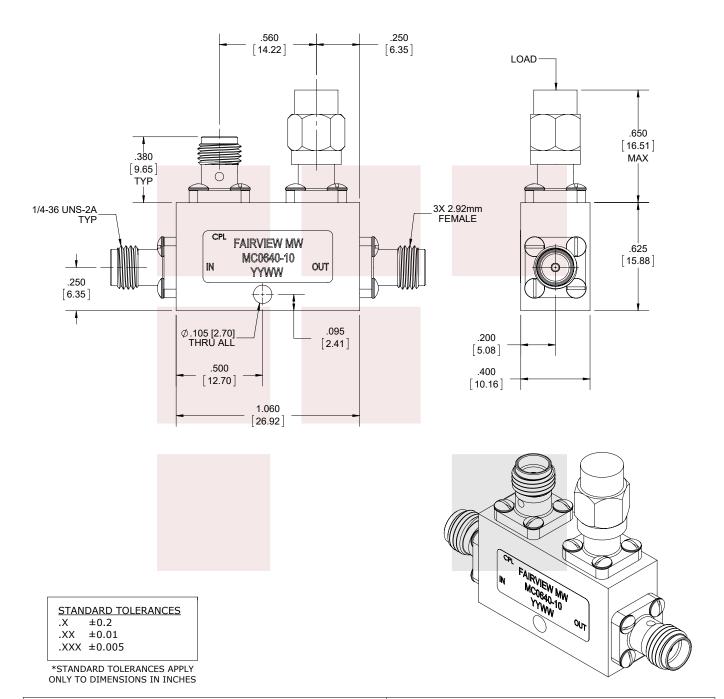
URL: https://www.fairviewmicrowave.com/2.92mm-directional-coupler-10-db-40-ghz-20-watts-mc0640-10-p.aspx

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.

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







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].					TIME.
2.92mm Directional Coupler 10 dB Coupled Port From 6 GHz to 40 GHz Rated To 20 Watts	DWG NO MC0640-10			CAGE CODE 3FKR5		
	CAD FILE 072617	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999