COUPLER DIRECTIONAL 230 WATT







DATA SHEET PART SERIES: D3MD20F

SHEET 1 OF 3 Dwg D3MD20F

EN 13-3456 Revision -

FEATURES

APPLICATIONS

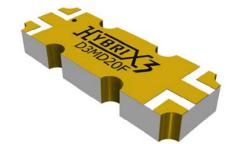
Low Profile Surface Mount Package Power Amplifiers
High Power Power Monitors
Low Insertion Loss Reflectometers

High Directivity Signal Distribution Networks

High Reliability

Antenna Feeds

Switch Networks



GENERAL DESCRIPTION

EMC Technology offers high performance directional couplers in a low profile, surface mount package. These couplers are designed for demanding applications where high power, low loss and excellent directivity are required.

ORDERING INFORMATION

Part Identifier: D3MD20F

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Coupling	Insertion Loss	VSWR	Directivity	Power Handling
700 to 1000 MHz	20 ± 1.0 dB	0.075 dB Max	1.12:1 Max	23 dB Min	230 Watts CW

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2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +125°C

3.0 MARKING

Hybrix, Part Number and Pin 1 Indicator

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.

Visual and Mechanical Examination for Conformance To Outline Drawing Requirements.

Measure Amplitude Balance and VSWR

Test Data Requirements

No Test Data Required Data Retention – 12 months

5.0 PACKAGING

Standard: Tape and Reel

Note: Specifications are subject to change.

smiths microwave

423F107 Rev-

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AS 9100, ISO 9001 and 14001 Certified

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6.0 MECHANICAL

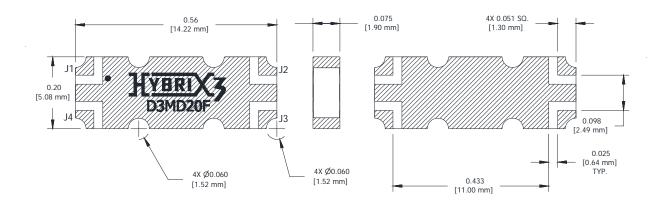
Substrate:: LTCC
Conductor: Silver
Plating: Gold

Application Note:

AN0030 (General Hybrid and Directional Coupler)

PIN CONFIGURATION

Port	J1	J2	J3	J4
J1	-	Out	Iso	Coup
J2	Out	-	Coup	Iso
J3	Iso	Coup	-	Out
J4	Coup	Iso	Out	-



Unless Otherwise Specified: TOLERANCE: $X.XX = \pm 0.01$ $X.XXX = \pm 0.005$

Metric dimensions are provided for reference only.

Note: Specifications are subject to change.

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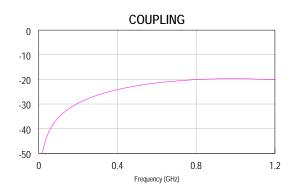
DATA SHEET

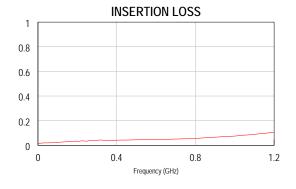
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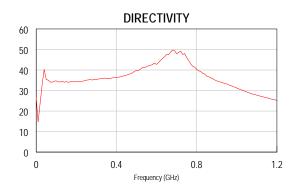
SHEET 3 OF 3 Dwg D3MD20F

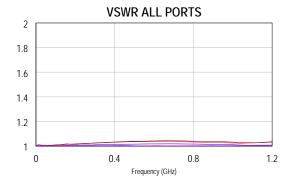
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7.0 TYPICAL PERFORMANCE AT 25°C









Note: Specifications are subject to change.

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