

COUPLER DIRECTIONAL 80 WATT

HybriX®



EMC
Technology

DATA SHEET

PART SERIES: D3PL20F

SHEET 1 OF 3
Dwg D3PL20F

EN 13-3456
Revision -

FEATURES

Low Profile Surface Mount Package
High Power
Low Insertion Loss
High Directivity
High Reliability

APPLICATIONS

Power Amplifiers
Power Monitors
Reflectometers
Signal Distribution Networks
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: D3PL20F

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Coupling	Insertion Loss	VSWR	Directivity	Power Handling
2000 - 2300 MHz	20 ± 1.0 dB	0.2 dB Max	1.2:1 Max	18 dB Min	80 Watts CW

2.0 ENVIRONMENTAL

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

3.0 MARKING

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 Packaging: Tape and Reel

Note: Specifications are subject to change.

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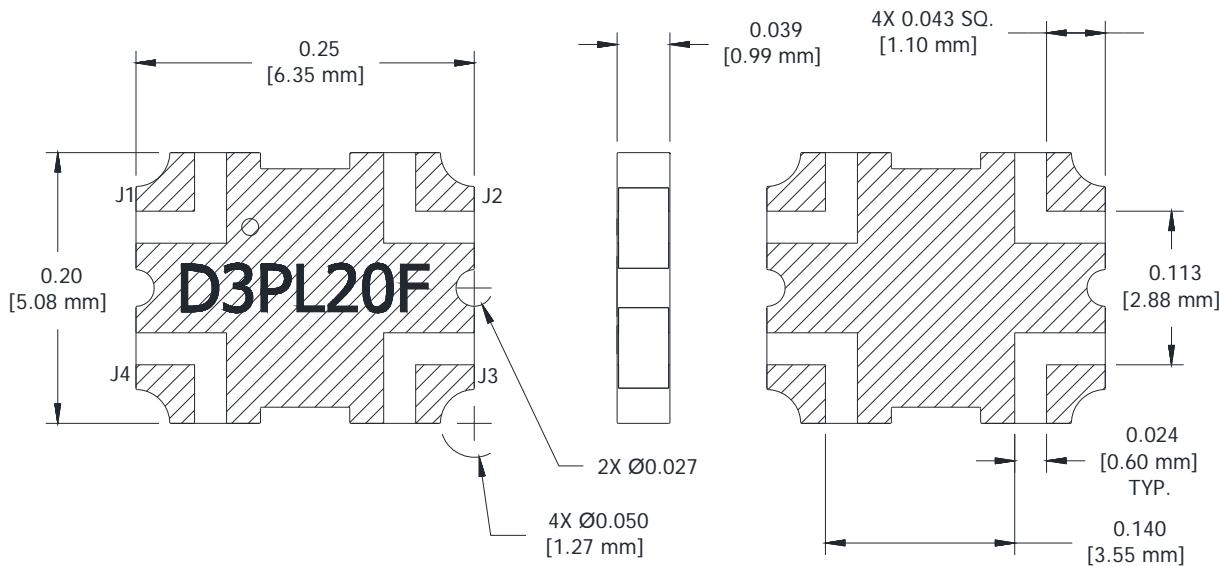
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6.0 MECHANICAL

Substrate:: LTCC
Conductor: Silver
Plating: Gold
Application Note: AN0030 (General Hybrid and Directional Coupler)

PIN CONFIGURATION

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



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

Metric dimensions are provided for reference only.

Note: Specifications are subject to change.

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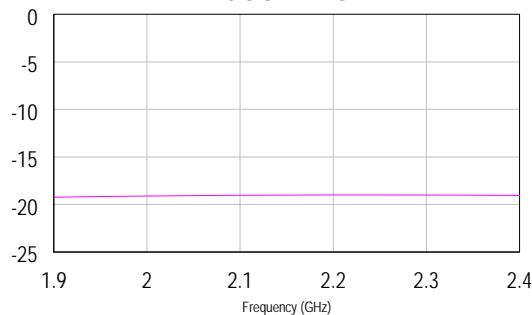
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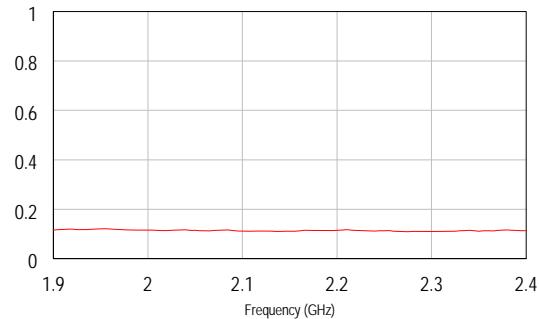
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7.0 TYPICAL PERFORMANCE AT 25°C

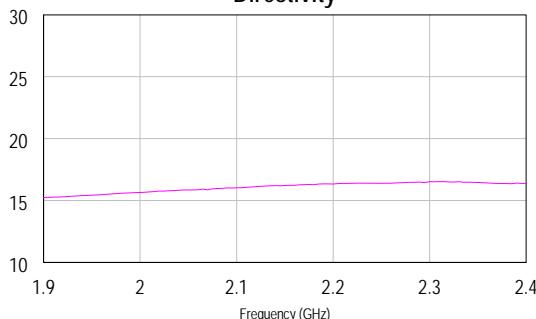
COUPLING



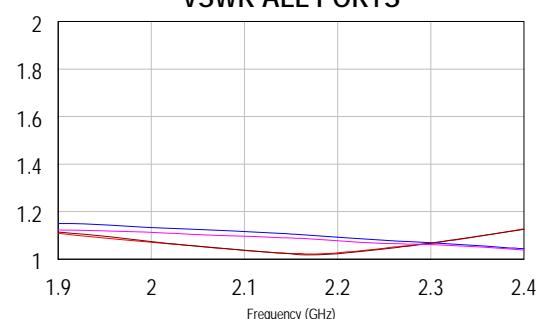
INSERTION LOSS



Directivity



VSWR ALL PORTS



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