

COUPLER DIRECTIONAL 80 WATT

HybriX®



EMC
Technology

DATA SHEET

PART SERIES: D3PP20F

SHEET 1 OF 3
Dwg D3PP20F

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: D3PP20F

SPECIFICATIONS

1.0 ELECTRICAL

| Frequency | Coupling | Insertion Loss | VSWR | Directivity | Power Handling |
|------------------|-------------|----------------|---------|-------------|----------------|
| 2300 to 2700 MHz | 20 ± 1.0 dB | 0.2 dB Max | 1.2 Max | 20 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: Tape and Reel

Note: Specifications are subject to change.

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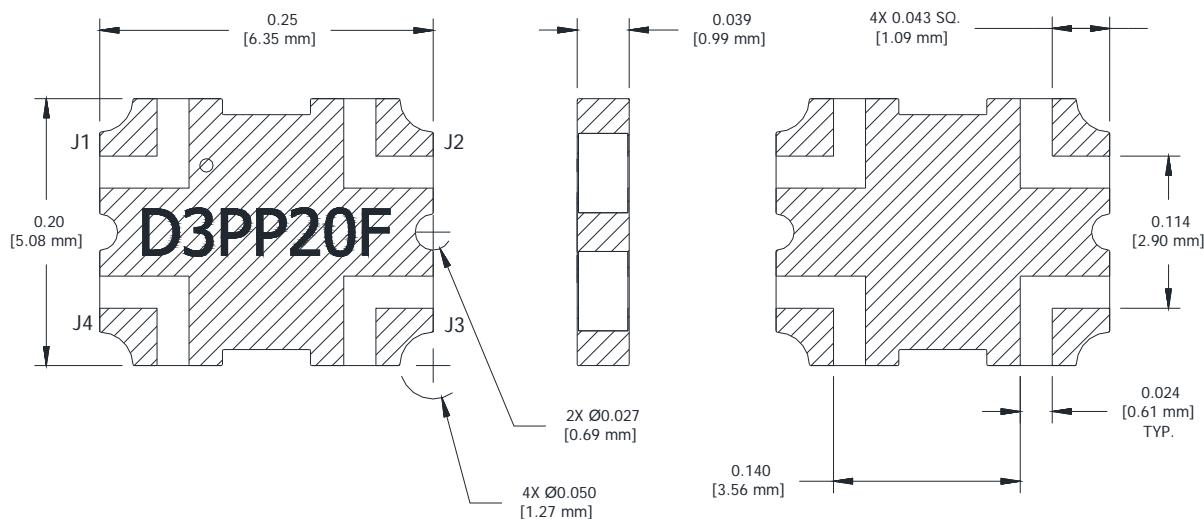
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6.0 MECHANICAL

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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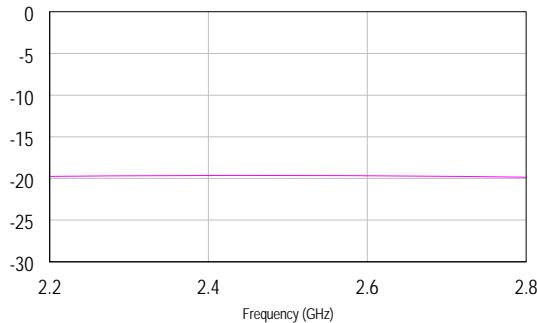
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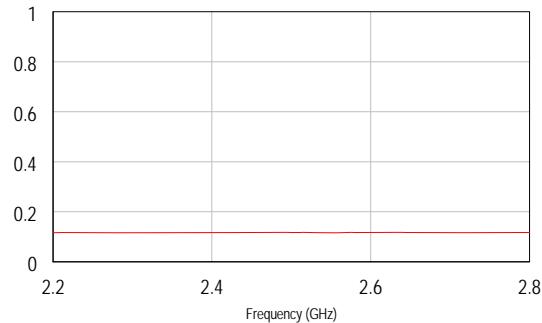
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7.0 TYPICAL PERFORMANCE AT 25°C

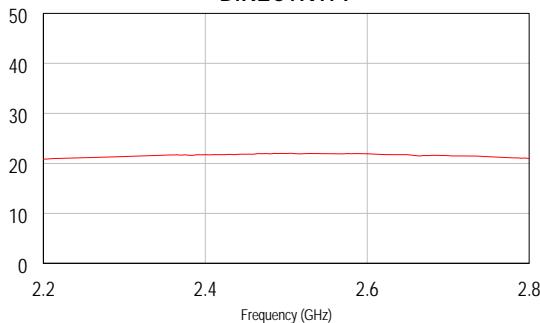
COUPLING



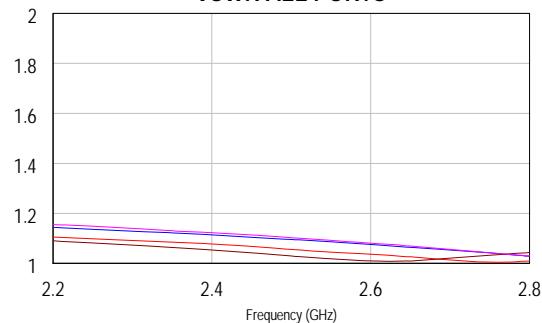
INSERTION LOSS



DIRECTIVITY



VSWR ALL PORTS



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