

COUPLER DIRECTIONAL 80 WATT

HybriX®



DATA SHEET

PART SERIES: D3PJ20F

SHEET 1 OF 3
Dwg D3PJ20F

EN 13-3456
Revision -

FEATURES

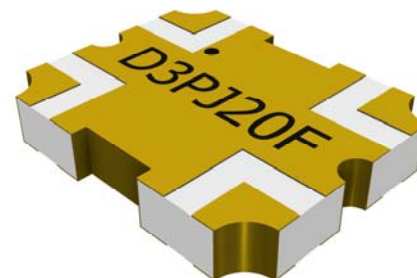
- Low Profile Surface Mount Package
- High Power
- Low Insertion Loss
- High Directivity
- High Reliability

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: D3PJ20F

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Coupling	Insertion Loss	VSWR	Directivity	Power Handling
1700 - 2200 MHz	20 ± 1.0 dB	0.15 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: Tape and Reel

Note: Specifications are subject to change.

COUPLER DIRECTIONAL 80 WATT

HybriX®



DATA SHEET

PART SERIES: D3PJ20F

SHEET 2 OF 3
Dwg D3PJ20F

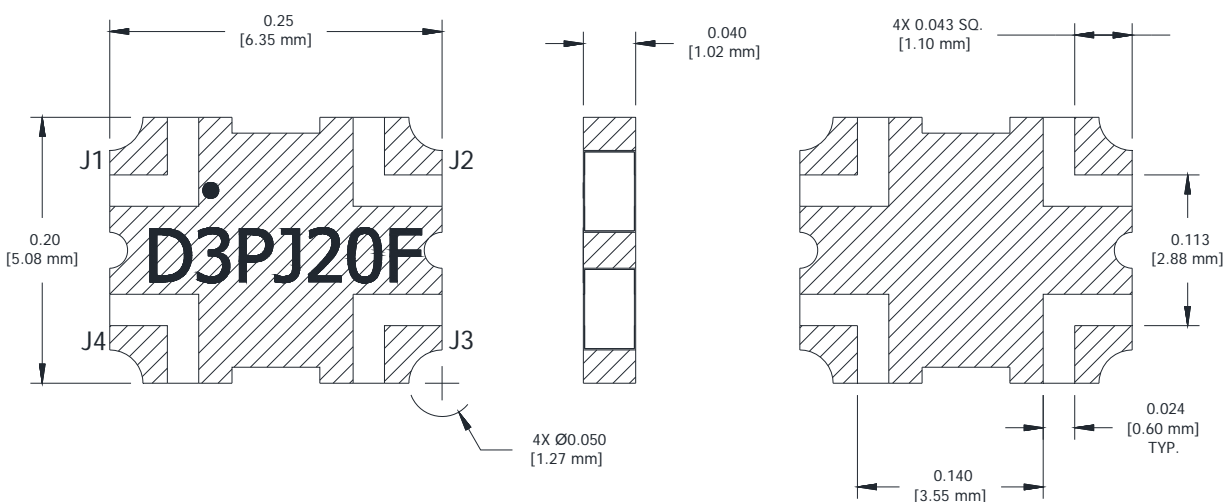
EN 13-3456
Revision -

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 = ± 0.01 X.XXX = ± 0.005

Metric dimensions are provided for reference only.

Note: Specifications are subject to change.

COUPLER DIRECTIONAL 80 WATT

HybriX®



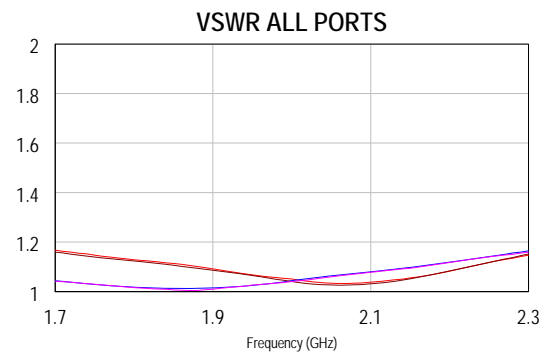
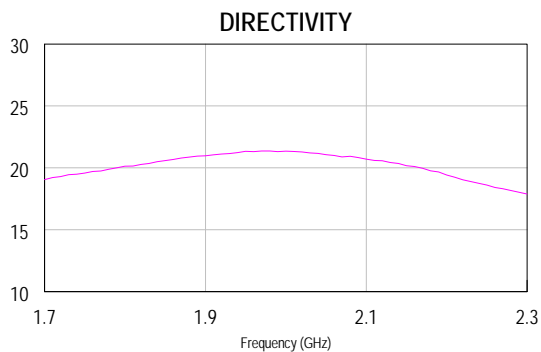
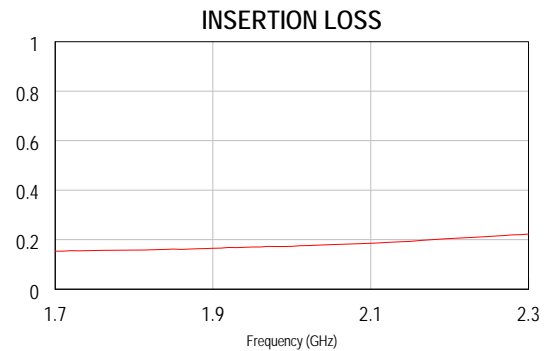
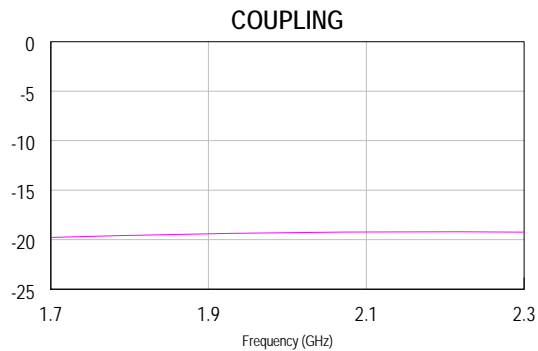
DATA SHEET

PART SERIES: D3PJ20F

SHEET 3 OF 3
Dwg D3PJ20F

EN 13-3456
Revision -

7.0 TYPICAL PERFORMANCE AT 25°C



Note: Specifications are subject to change.