COUPLER 90° HYBRID 100 WATT







DATA SHEET PART SERIES: HML2F SHEET 1 OF 3 **Dwg HML2F**

EN 13-3117

FEATURES

Low Profile Surface Mount Package

High Power Low Insertion Loss High Isolation High Reliability

Power Amplifiers Modulators Demodulator

APPLICATIONS

Signal Distribution Network

Antenna Feeds Switch Network



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



ORDERING INFORMATION

Part Identifier: HML2F

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Isolation	Insertion Loss	VSWR	Amplitude Balance	Phase Balance	Power Handling
1.9 - 2.3 GHz	25 dB Min	0.11 dB Max	1.12 Max	0.2 dB Max	90° ± 2	100 Watts CW

Cage Codes: 24602 / 2Y194

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +85°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.

COUPLER 90° HYBRID 100 WATT







DATA SHEET PART SERIES: HML2F

SHEET 2 OF 3 Dwg HML2F

EN 13-3117 Revision -

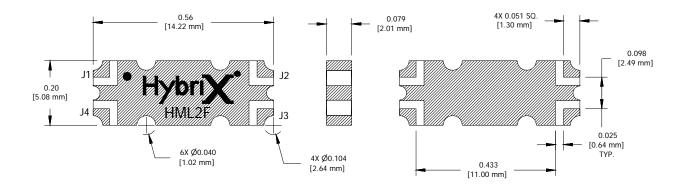
6.0 MECHANICAL

Substrate: PTFE
Conductor: Copper
Plating: Tin

Application Note: AN0030 (General Hybrid and Directional Coupler)

PIN CONFIGURATION

Port	J1	J2	J3	J4
J1	-	Iso	-90°	00
J2	Iso	-	00	-90°
J3	-90°	00	-	Iso
J4	00	-90°	Iso	-



Cage Codes: 24602 / 2Y194

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

Note: Specifications are subject to change.

COUPLER 90° HYBRID 100 WATT







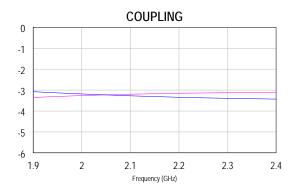
DATA SHEET

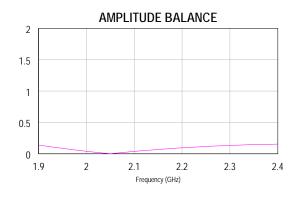
PART SERIES: HML2F

SHEET 3 OF 3 Dwg HML2F

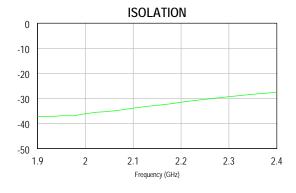
EN 13-3117 Revision -

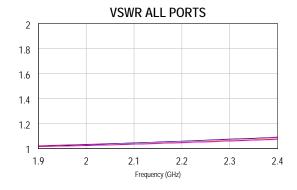
7.0 TYPICAL PERFORMANCE AT 25°C

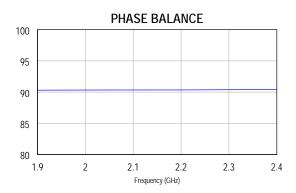












Note: Specifications are subject to change.

Cage Codes: 24602 / 2Y194