

# COUPLER 90° HYBRID 600 WATT

HybriX®



DATA SHEET

PART SERIES: H88-108-600

SHEET 1 OF 3  
Dwg H88-108-600

EN 13-3225  
Revision-

## FEATURES

- Mechanically Robust Caseless Package
- High Power
- Low Insertion Loss
- High Isolation
- High Reliability

## APPLICATIONS

- Broadcast Transmitters
- Power Amplifiers
- Modulator
- Signal Distribution Network
- Antenna Feeds
- Switch Networks



## GENERAL DESCRIPTION

EMC Technology offers caseless couplers that combine high electrical performance and mechanical robustness in an easy-to-install package. These couplers are designed for high power applications where low insertion loss and excellent isolation are critical, amplitude and phase balance are optimized to provide maximum power combining efficiency.

## ORDERING INFORMATION

**Part Identifier:** H88-108-600

## SPECIFICATIONS

### 1.0 ELECTRICAL

Frequency	Isolation	Insertion Loss	VSWR	Amplitude Balance	Phase Balance	Power Handling
88 to 108 MHz	23 dB Min	0.25 dB Max	1.20:1 Max	± 0.25 dB Max	90° ± 2	600 Watts CW

### 2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +95°C

### 3.0 MARKING

HybriX, Part Number and Port Indicators

### 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: Tray Packaging

*Note: Specifications are subject to change.*

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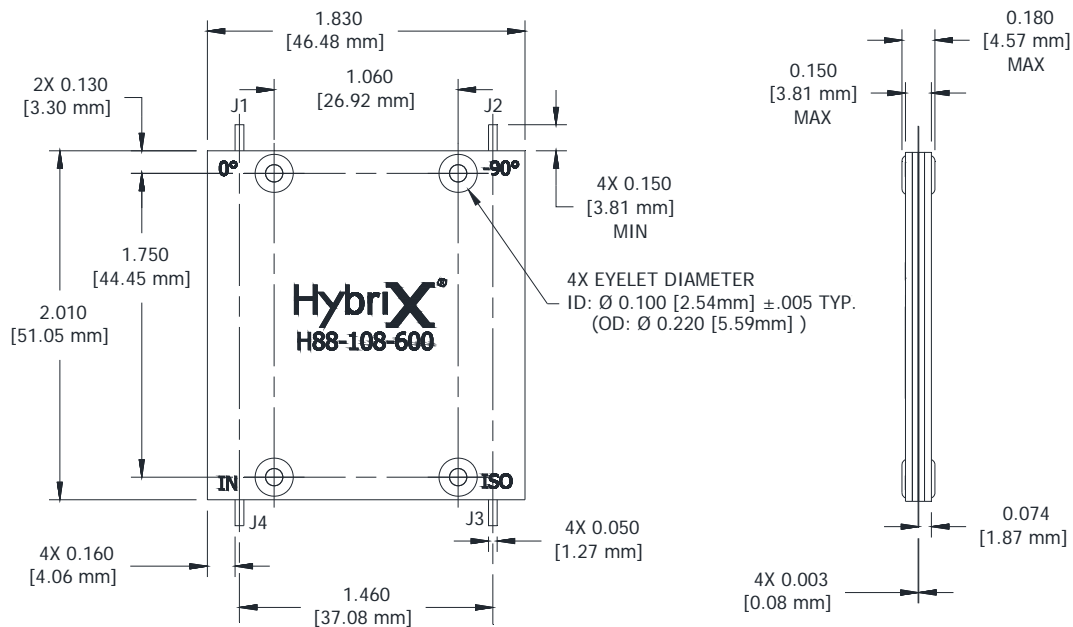
EN 13-3225  
Revision-

### 6.0 MECHANICAL

Substrate:	PTFE
Conductor:	Copper
Exterior Finish:	Chemical Conversion
Tabs:	Copper, Gold plated
Application Note:	AN0030 (General Hybrid and Directional Coupler)

### PIN CONFIGURATION

Port	J1	J2	J3	J4
J1	-	Iso	-90°	Iso
J2	Iso	-	0°	-90°
J3	-90°	0°	-	Iso
J4	0°	-90°	Iso	-



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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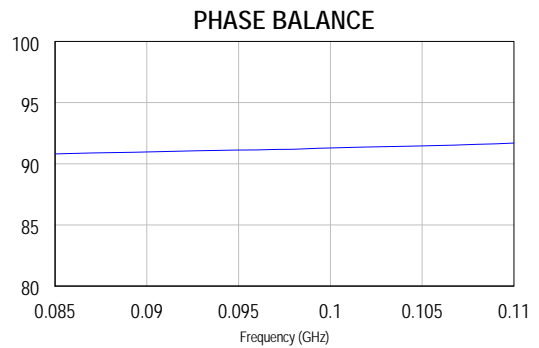
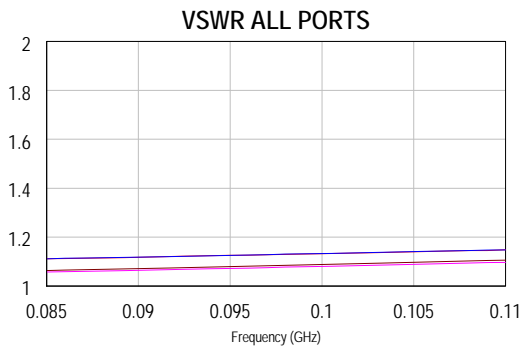
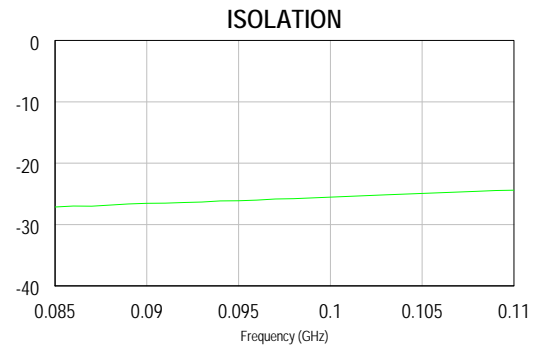
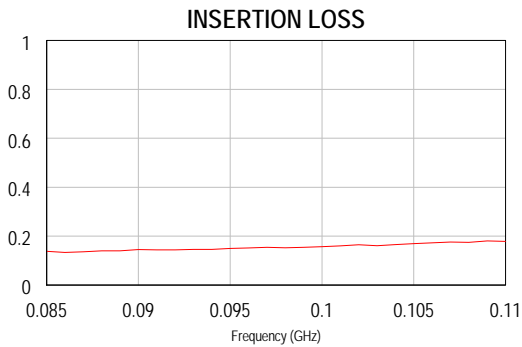
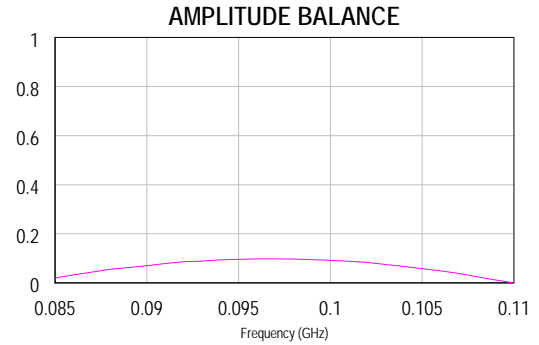
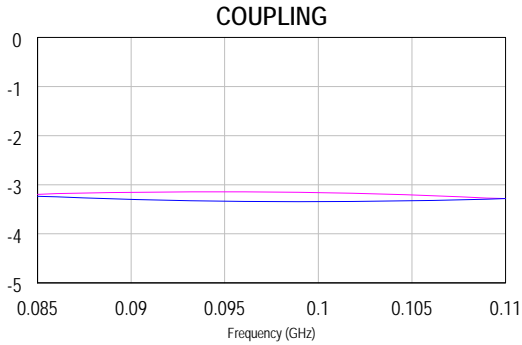
DATA SHEET

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SHEET 3 OF 3  
Dwg H88-108-600

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Revision-

## 7.0 TYPICAL PERFORMANCE AT 25°C



Note: Specifications are subject to change.