

## DESCRIPTION

PMI MODEL NO. QC-2040 IS A 3 dB, 90 DEGREE QUADRATURE COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 2.0 TO 4.0 GHz. IT IS DESIGNED FOR LOW INSERTION LOSS, LOW VSWR, PHASE AND AMPLITUDE BALANCE AND PACKAGED IN A VERY SMALL SIZE.

## SPECIFICATIONS

- FREQUENCY: ----- 2.0 TO 4.0 GHz
- INSERTION LOSS: ----- 0.30 dB MAX
- ISOLATION: ----- 20 dB MIN, 29 dB TYP
- VSWR MAXIMUM: ----- 1.30:1 MAX
- AMPLITUDE BALANCE: ----- ±0.50 dB MAX
- PHASE BALANCE: ----- ±2.0° MAX
- POWER: ----- 75 CW WATTS
- WEIGHT: ----- 1 oz TYP
- SIZE: ----- 0.80" x 1.20" x 0.22"

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
----- -65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202F, METHOD 107D COND. A

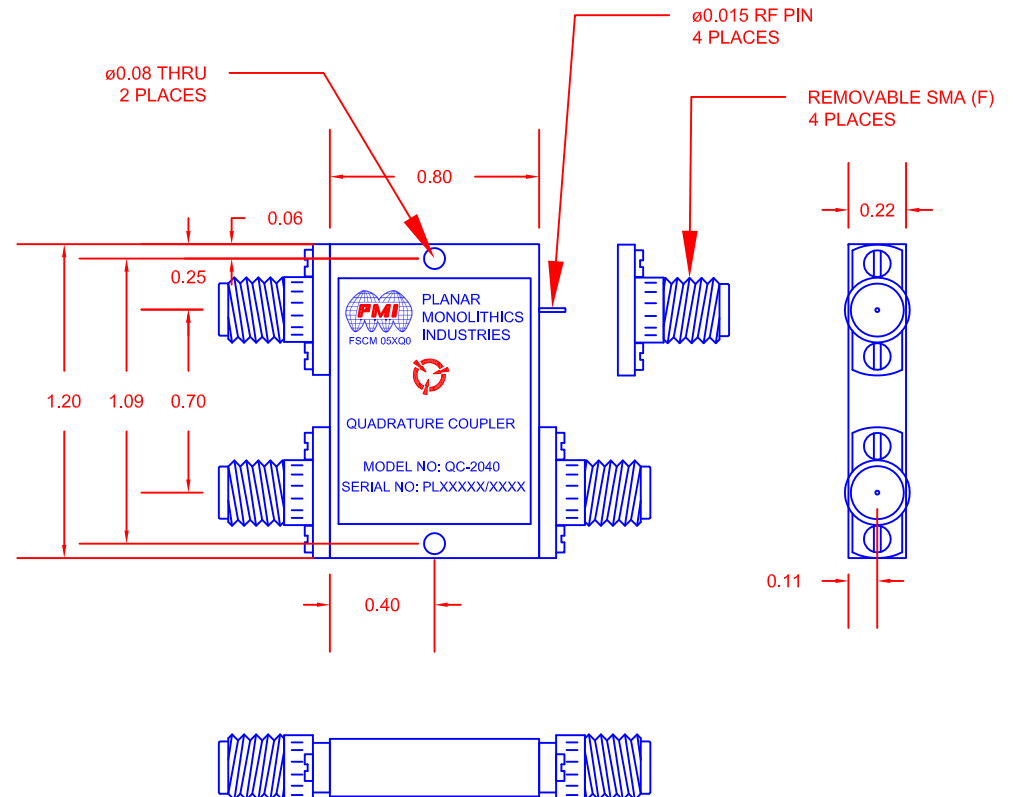
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/9/2019	

## MECHANICAL OUTLINE



**PLANAR MONOLITHICS INDUSTRIES, INC.**  
 7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: (301)-662-5019, FAX: (301)-662-1731  
 WEB: [www.pmi-rf.com](http://www.pmi-rf.com), EMAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>KL</i>		9/9/98	PRODUCT FEATURE QC-2040			
REDRAWN <i>BW</i>		1/9/19	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1

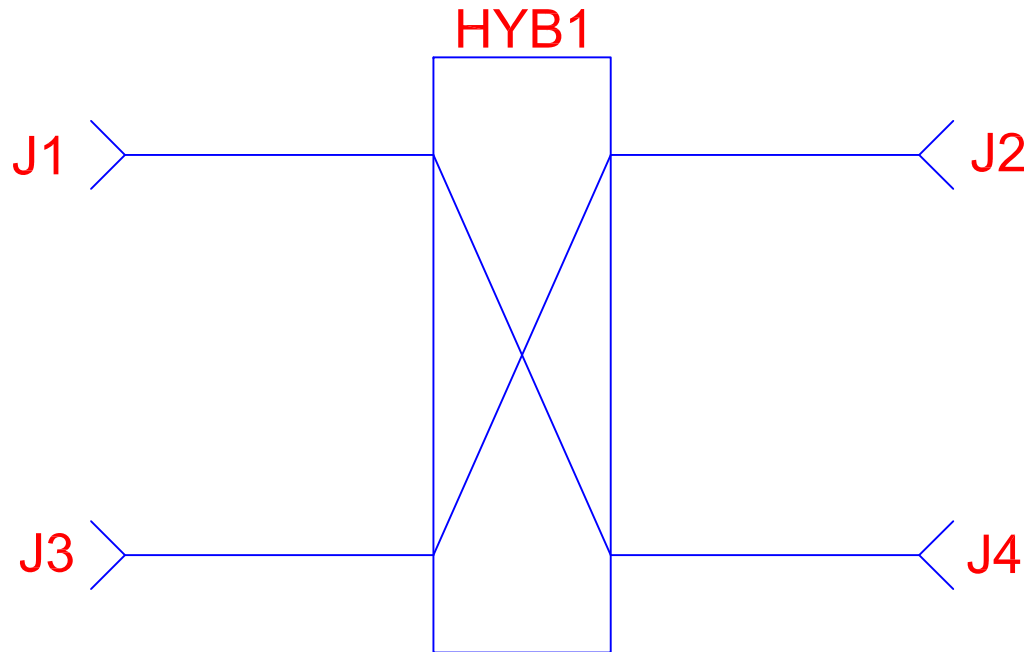
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 ARE IN INCHES [mm]  
 TOLERANCES:  
 X,XX ±0.020  
 X,XXX ±0.010

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## FUNCTIONAL SCHEMATIC



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