

DESCRIPTION

PMI MODEL NUMBER PS-12-360-QQ1470 IS A 1 TO 2GHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0 TO 360°. THE UNIT CONSISTS OF AN ANALOG PHASE SHIFTER AND A DIGITAL-TO-ANALOG CONVERTER. EIGHT LOGIC INPUT LINES ALLOW 256 DISCRETE VALUES OF PHASE.

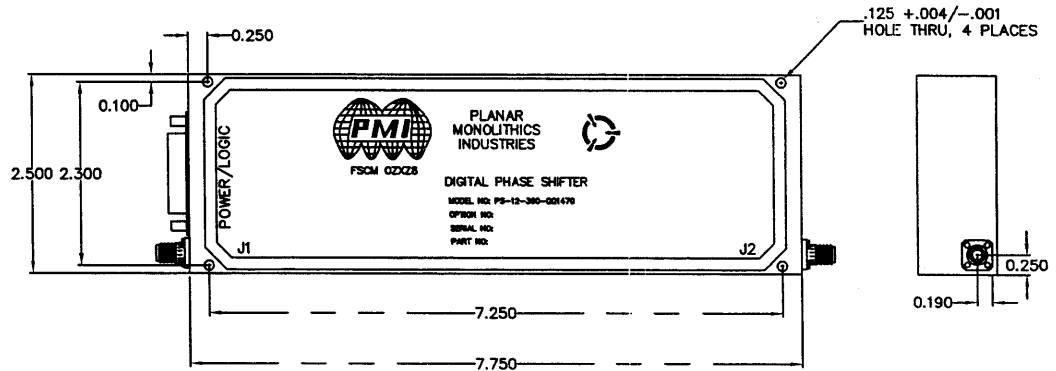
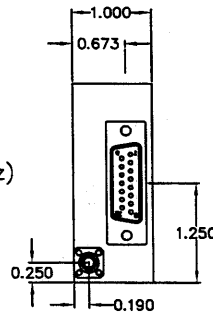
SPECIFICATIONS

- FREQUENCY RANGE..... 1 TO 2 GHz
(AVAILABLE UP TO 18 GHz)
- RF IMPEDANCE -(NOMINAL)..... 50 OHMS
- VOLTAGE..... +15V @ 90 mA
-15V @ 60 mA
- LOGIC INPUT..... TTL CONTROL
- PHASE SHIFT (MIN)..... 360°
- STEP SIZE (LSB)..... 1.41° LSB
- INSERTION LOSS (MAX)..... 6.0 dB MAX
- AMPLITUDE RIPPLE MAX..... ±1.50 DB
- VSWR MAX..... 2.0 TO 1 MAX INPUT AND OUTPUT
- SWITCHING SPEED..... 200 NS
- TEMPERATURE COMPENSATION: MAXIMUM PHASE DRIFT SHALL BE NO MORE THAN ±5° OR ±5%, WHICHEVER IS GREATER, OVER THE SPECIFIED TEMPERATURE RANGE
- MONOTONICITY..... GUARANTEED
- RF POWER (OPERATING)
PEAK OR CONTINUOUS WAVE..... 10 mW
- CONNECTORS
- RF INPUT/OUTPUT..... SMA FEMALE
- POWER AND CONTROLS..... MALE 15 PIN SUBMINIATURE "D" CONNECTOR
- SIZE..... 7.75 x 2.50 x 1.00

ENVIRONMENTAL RATINGS

- TEMPERATURE..... -40° C TO +85° C (OPERATING)
-40° C TO +100° 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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
PIN LETTER	FUNCTION
1	LOGIC INPUTS (LSB)
2	LOGIC INPUTS
3	LOGIC INPUTS
4	LOGIC INPUTS
5	LOGIC INPUTS
6	LOGIC INPUTS
7	LOGIC INPUTS
8	LOGIC INPUTS (MSB)
9	NC
10	NC
11	NC
12	NC
13	+ 15 VDC
14	- 15 VDC
15	GROUND

- NOTES:
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES: X.XX ±0.020
 X.XXX ±0.010

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 ISO 9001:2000 CERTIFIED



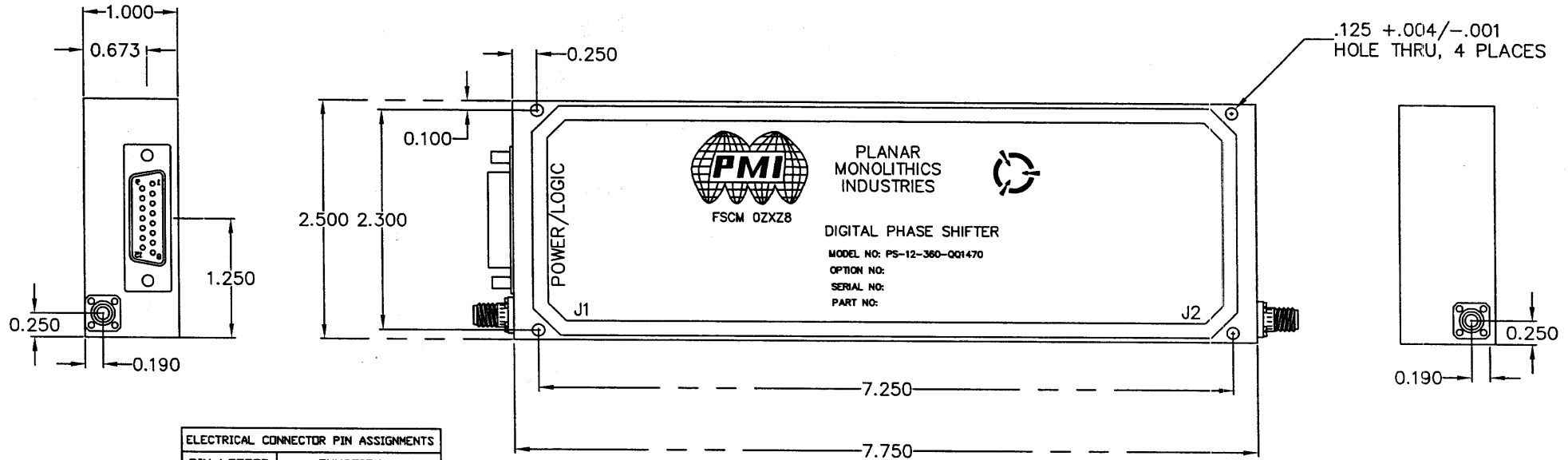
APPROVALS		DATE	TITLE			
DRAWN	<i>JKM</i>	10/19/04	PRODUCT FEATURE PS-12-360-QQ1470 1-2GHz, 0-360° PHASE SHIFTER			
CHECKED	<i>JK</i>	10/19/04	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED	<i>lt</i>	<i>pl/bdy</i>	A	OZ XZ8	100-6671	A
			SCALE	N: S		SHEET 1 of 3

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ZONE		REV.	DESCRIPTION	DATE	APPROVED
		-	ORIGINAL RELEASE JOB# P21234E	08-16-03	
		A	SEE ECN# 04-126	10-19-04	JK

MECHANICAL OUTLINE



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8	LOGIC INPUTS (MSB)
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10	NC
11	NC
12	NC
13	+ 15 VDC
14	- 15 VDC
15	GROUND

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
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X.XXX ±0.010

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APPROVALS		DATE	TITLE		
DRAWN	JKM	10/19/04	MECHANICAL OUTLINE		
CHECKED	JK	10/19/04	PS-12-360-QQ1470		
ISSUED	JK	10/19/04	1-2GHZ, 0-360° PHASE SHIFTER		
			SIZE	FSCM NO.	DWG NO.
			A	OZXZ8	100-6671
			SCALE	N: S	SHEET 2 OF 3