

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	03/28/00	

DESCRIPTION:

PMI MODEL PS-360-AC IS A 3.5-6.5 GHz ANALOG CONTROLLED PHASE SHIFTER/I & Q HIGH SPEED MODULATOR. THE PS-360-AC HAS LOW SPURIOUS HARMONICS. IT IS DESIGNED FOR +15/-15 SUPPLY VOLTAGE WITH LOW INSERTION LOSS, VSWR:2:1, SMA FEMALE RF CONNECTORS AND BNC FEMALE CONTROL CONNECTORS FOR THE I & Q.

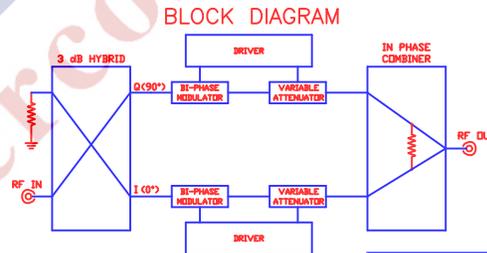
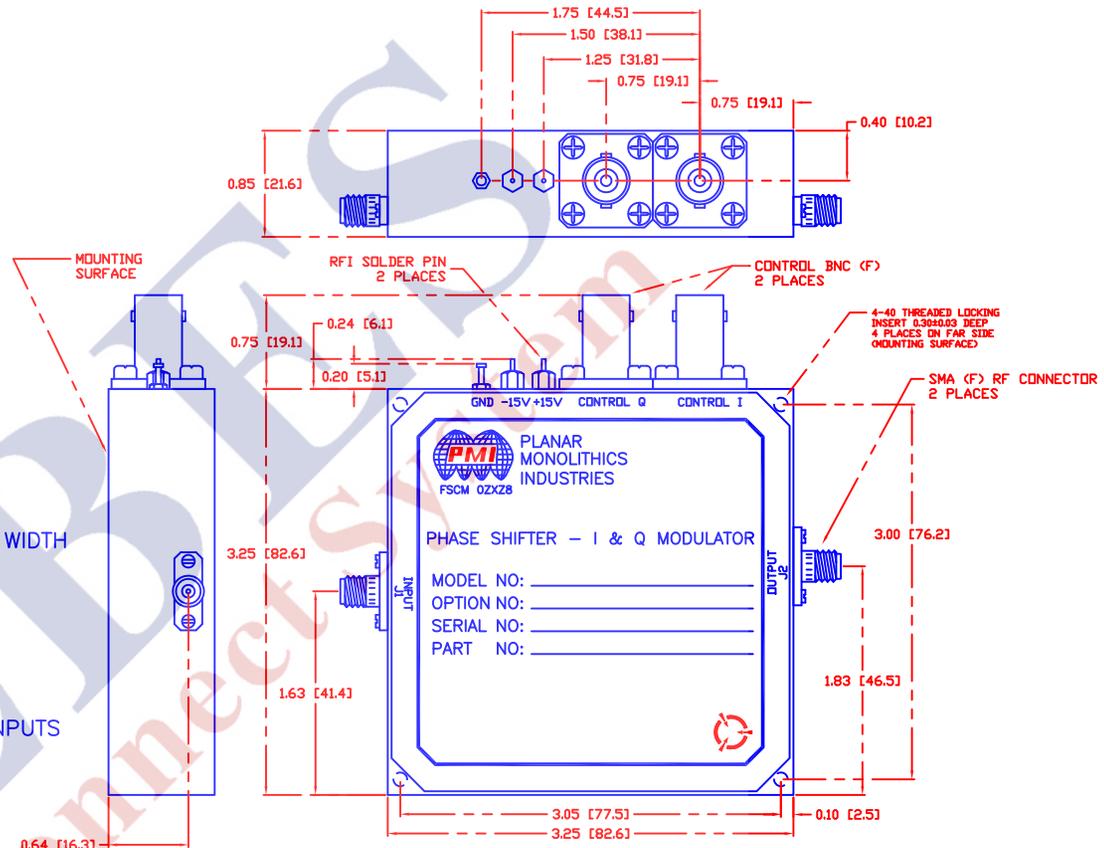
SPECIFICATIONS

- FREQUENCY RANGE: 3.5 GHz TO 6.5 GHz
- INSERTION LOSS: 12 dB MAXIMUM
- VSWR: 2:1
- ATTENUATION RANGE: 20 dB MINIMUM
- ABSOLUTE INSERTION PHASE ACCURACY VS. FREQUENCY (MAX) ±15°
- VARIATION OF PHASE VS. TEMP. (MAX) ±0.1 DEG./°C
- VARIATION OF AMPLITUDE VS. TEMPERATURE (MAX) 0.02 dB/°C
- POWER HANDLING: (WITHOUT DEGRADATION) 100 mW CW OR PEAK (SURVIVAL -65°C TO +25°C) 1W AVERAGE, 25W PEAK, 1µsec PULSE WIDTH
- FINE GRAIN PHASE RIPPLE (50MHz) (MAX) 2° PK-PK
- CONTROL INPUT: 0 TO +10V DC FOR BOTH I AND Q INPUTS
- RESPONSE TIME (MAX): 0.5 µsec
- POWER SUPPLY: ±12...15 VOLTS @ 70 mA
- CONNECTORS: RF INPUT/OUTPUT: SMA FEMALE SOLDER PIN POWER: SOLDER PIN CONTROL: SOLDER PIN
- CONTROL INPUT IMPEDANCE: 10 K OHMS
- SIZE: 3.25" x 3.25" x 0.85"
- WEIGHT: 10 OUNCES

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -54°C TO +100°C (OPERATING) -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B (96 HRS AT 95%)
- SHOCK: MIL-STD-202F, METHOD 213B COND. B (75G 6 msec)
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B (0.06" DOUBLE AMPLITUDE OR 15 G WHICHEVER IS LESS)
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B (50,000 FEET)
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A (5 CYCLES)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

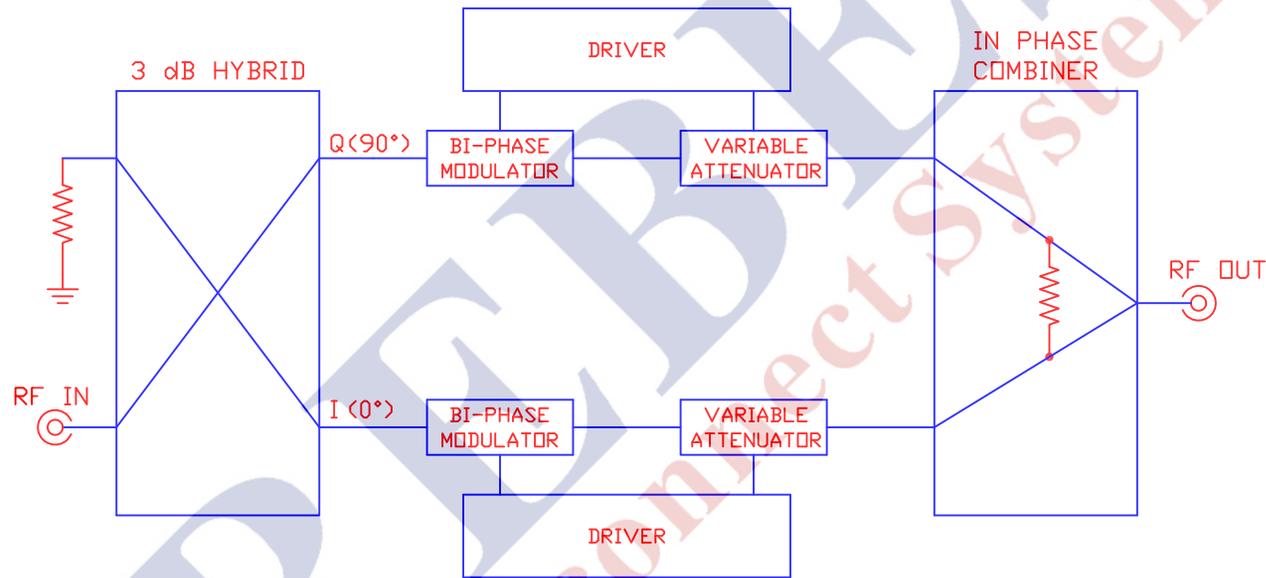
PART NO.		PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN	03/28/00	PRODUCT FEATURE		
CHECKED		PS-360-AC OPTION 37, 7224, IQ RH		
ISSUED		PHASE SHIFTER / I & Q MODULATOR		
SIZE	FSCM NO.	DWG NO.	REV.	
A	02XZ8	100-5334	-	
SCALE	N/S		SHEET	1 of 3

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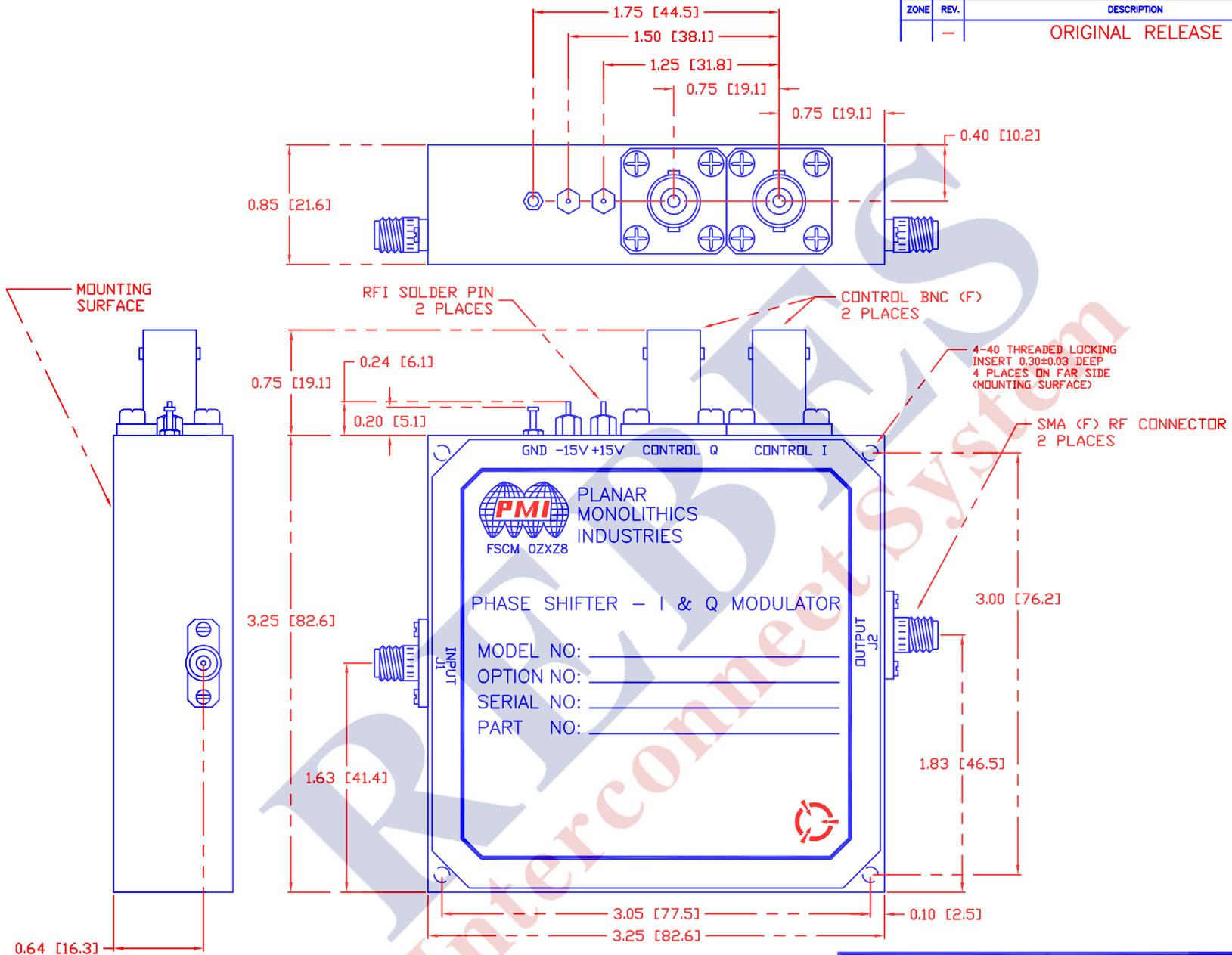
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FUNCTIONAL SCHEMATIC



PART NO.		 PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WSP/SPJ</i>	<i>03/28/00</i>	PRODUCT FEATURE PS-360-AC OPTION 37, 7224, IQ RH PHASE SHIFTER / I & Q MODULATOR		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A	OZXZ8	100-5334
		SCALE	N/S	SHEET 2 of 3
				REV. -

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	6/15/94	



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.010
X.XXX ±0.005

PART NO.		 PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WSP/PRJ</i>	03/28/00	PRODUCT FEATURE PS-360-AC OPTION 37, 7224, IQ RH PHASE SHIFTER / I & Q MODULATOR		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A	0ZXZ8	100-5334
		SCALE	N/S	SHEET 3 of 3