

DESCRIPTION

PMI MODEL: PS-380M430M-180-A-SFF-TYPEC IS AN ANALOG PHASE SHIFTER OPERATING OVER THE 380 TO 430 MHz FREQUENCY RANGE. THIS MODEL OFFERS A 180° PHASE SHIFT RANGE WHILE MAINTAINING A PHASE SWITCHING SPEED OF 100 ns TYPICAL AND AN AMPLITUDE VARIATION OF 0.5 dBm MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 380 MHz TO 430 MHz
- RF INPUT POWER: ----- 0 dBm
- RF OUTPUT POWER: ----- 20 dBm
- PHASE RANGE: ----- 180°
- CONTROL VOLTAGE: ----- ±350 mV
- CONTROL BANDWIDTH: ----- DC TO 50 kHz
- PHASE SWITCHING SPEED: ----- 100 ns TYPICAL
- AMPLITUDE VARIATION: ----- 0.5 dBm MAXIMUM
- PHASE VARIATION FROM SET POINT: - ±0.1° MAXIMUM
- VSWR: ----- 1.2:1 MAXIMUM
- DC SUPPLY: ----- +15 V @ 150 mA TYPICAL
-15 V @ 25 mA TYPICAL
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 127 mm x 76.20 mm x 57.15 mm
5.00" x 3.00" x 2.25"
EXCLUDING MOUNTING PLATE

- FINISH: ----- BLUE EPOXY POLIMIDE COATING
IAW MIL-C-22750, TYPE I OVER
EPOXY POLIMIDE PRIMER IAW
MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 0 °C TO +70 °C (OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

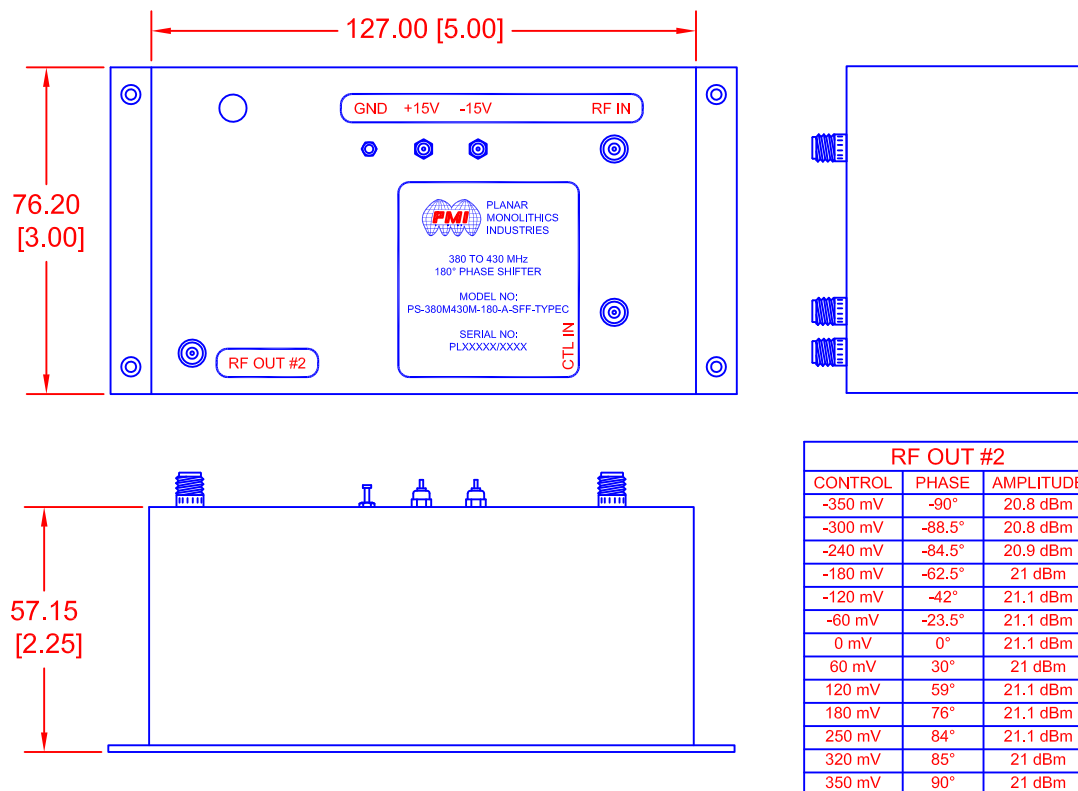
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ± 0.508 [0.020]
X.XXX ± 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/09/16	

MECHANICAL OUTLINE



RF OUT #2		
CONTROL	PHASE	AMPLITUDE
-350 mV	-90°	20.8 dBm
-300 mV	-88.5°	20.8 dBm
-240 mV	-84.5°	20.9 dBm
-180 mV	-62.5°	21 dBm
-120 mV	-42°	21.1 dBm
-60 mV	-23.5°	21.1 dBm
0 mV	0°	21.1 dBm
60 mV	30°	21 dBm
120 mV	59°	21.1 dBm
180 mV	76°	21.1 dBm
250 mV	84°	21.1 dBm
320 mV	85°	21 dBm
350 mV	90°	21 dBm

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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE PS-380M430M-180-A-SFF-TYPEC 380 to 430 MHz 180° Analog Phase Shifter			
APPROVALS	DATE				
DRAWN <i>M. Berry</i>	<i>08/09/16</i>				
CHECKED					
ISSUED					
		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV -
		SCALE N:S			SHEET 1 OF 1