

DESCRIPTION

PMI MODEL: PS-2G18G-360-16D-TS IS A 2 TO 18 GHz, 16-BIT, VECTOR PHASE SHIFTER MAKING IT IDEAL FOR FREQUENCY TRANSLATION WHERE CONTINUOUS MONOTONIC PHASE SHIFTING IS REQUIRED. THIS MODEL ALSO FEATURES HIGH SPEED SWITCHING, AND TYPICALLY LOWER THAN 60dB HARMONIC DISTORTION.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz
- PHASE RANGE: ----- 360°
- RF INPUT POWER: ----- +20 dBm CW, 1.0 WATT MAX
- INSERTION LOSS: ----- 18.0 dB MAX
- VSWR: ----- 2.2:1 MAX (50 OHM SYSTEM)
- PHASE VS FREQUENCY: ----- ±15.0° TYP
- CONTROL LOGIC: ----- 16 BIT TTL COMPATIBLE
- CONTROL SLOPES: ----- LINEAR
- SWITCHING SPEED: ----- 500 ns MAX
- POWER SUPPLY: ----- ± 12V TO ±15V @ ±100mA MAX
- RF CONNECTORS: ----- SMA FEMALE INPUT AND OUTPUT
- POWER/LOGIC CONNECTIONS: ----- DC-37P, SUB MINIATURE D MULTI-PIN
- TEMP SENSOR: ----- 10 mV/°C, 3 V @ 25 °C
- SIZE: ----- 4.25" X 3.50" X 1.00"
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -10 °C TO +60 °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
	1	PRELIMINARY	1/18/2018	

37-PIN CONNECTOR PIN-OUT

PIN	FUNCTION	PIN	FUNCTION
1	1.41°	20	0.7°
2	2.81°	21	5.63°
3	11.25°	22	NC
4	22.5°	23	NC
5	45°	24	NC
6	90°	25	180° (MSB)
7	NC	26	NC
8	+12V TO +15V	27	NC
9	GND	28	GND
10	GND	29	NC
11	-12V TO -15V	30	TEMP SENSOR
12	NC	31	TEMP SENSOR RETURN
13	0.005° (LSB)	32	NC
14	0.01°	33	NC
15	0.02°	34	NC
16	0.04°	35	NC
17	0.09°	36	NC
18	0.18°	37	NC
19	0.35°		

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE PRODUCT FEATURE PS-2G18G-360-16D-TS					REV.			
DRAWN <i>MSB</i>		<i>1/8/16</i>						SIZE	FSCM NO.	DWG NO.	1
REDRAWN <i>EMF</i>		<i>1/16/18</i>						A	05XQ0	PRELIMINARY	1
ISSUED			SCALE N:S			SHEET	1 OF 2				