

DESCRIPTION

PMI MODEL: PLA-14D65G15G35G-20DB-SFF-250W IS AN INTEGRATED LIMITER AND ATTENUATOR THAT OPERATES AT 14.65 TO 15.35 GHz. THE INSERTION LOSS IS 3.59 dB MAXIMUM AND OFFERS 20 dB OF ATTENUATION CONTROL VIA A SINGLE LINE TTL SIGNAL. THIS MODEL IS DESIGNED TO HANDLE 125 WATTS PEAK HAVING A PULSE WIDTH OF 40 μ s AND AN AVERAGE POWER OF 12.5 WATTS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 14.65 TO 15.35 GHz
- INSERTION LOSS: ----- 3.59 dB MAX¹
- PEAK POWER HANDLING
 - LOW TEMP (-55 °C): ----- 100 W MAX²
 - ROOM TEMP (+25 °C): ----- 125 W MAX²
 - HIGH TEMP (+85 °C): ----- 100 W MAX²
- PULSE WIDTH: ----- 40 μ s TYP²
- AVERAGE POWER
 - LOW TEMP (-55 °C): ----- 10 W MAX²
 - ROOM TEMP (+25 °C): ----- 12.5 W MAX²
 - HIGH TEMP (+85 °C): ----- 10 W MAX²
- ATTENUATION: ----- LOGIC TTL "0" - 0 dB ATTENUATION
LOGIC TTL "1" - 20 dB ATTENUATION
- ATTENUATION FLATNESS: --- ± 1 dB MAX
- ATTENUATION ACCURACY: -- ± 1 dB MAX
- P1dB LIMITING THRESHOLD: - +5 dBm MIN

1. @ -10 dBm INPUT AND 0 dB ATTENUATION

2. @ 0 dB AND 20 dB ATTENUATION @ 10% DUTY CYCLE

- FLAT LEAKAGE
 - LOW TEMP (-55 °C): ----- +20 dBm MAX @ 0 dB ATTENUATION AND 100 W MAX
 - ROOM TEMP (+25 °C): ----- +20 dBm MAX @ 0 dB ATTENUATION AND 125 W MAX
 - HIGH TEMP (+85 °C): ----- +20 dBm MAX @ 0 dB ATTENUATION AND 100 W MAX
- SWITCHING SPEED: ----- 90 ns @ 50% TTL TO 10% RF VOLTAGE MAX
90 ns @ 50% TTL TO 90% RF VOLTAGE MAX
- CONTROL LOGIC: ----- TTL COMPATIBLE
- PHASE MATCH: ----- 15° MAX (UNIT TO UNIT)
- DC CONSUMPTION: ----- 150 mA MAX EACH FOR +5 V & -15 V
- VSWR: ----- 2.0:1 MAX @ -10 dBm INPUT
- RF CONNECTORS: ----- REMOVABLE SMA FEMALE
(J2 - RF INPUT & J1 - RF OUTPUT)
- FINISH: ----- 0003 SILVER PLATE OVER COPPER FLASH IAW QQ-S-365
TYPE 1, GRADE A

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-810F
- SHOCK: ----- MIL-STD-810F, METHOD 516.5, PROCEDURE 1
- VIBRATION: ----- MIL-STD-810F, METHOD 514.5
- ALTITUDE: ----- MIL-STD-810F, METHOD 520.2, PROCEDURE 3
- TEMPERATURE CYCLE: ----- MIL-STD-810F, METHOD 501.4, 502.4

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	ORIGINAL RELEASE	05/19/16	
	2	ENVIRONMENTAL SPECIFICATION UPDATE	07/18/16	
	A1	ECN # 16-0138	10/09/16	
	B1	ECN # 18-0163	7/31/18	

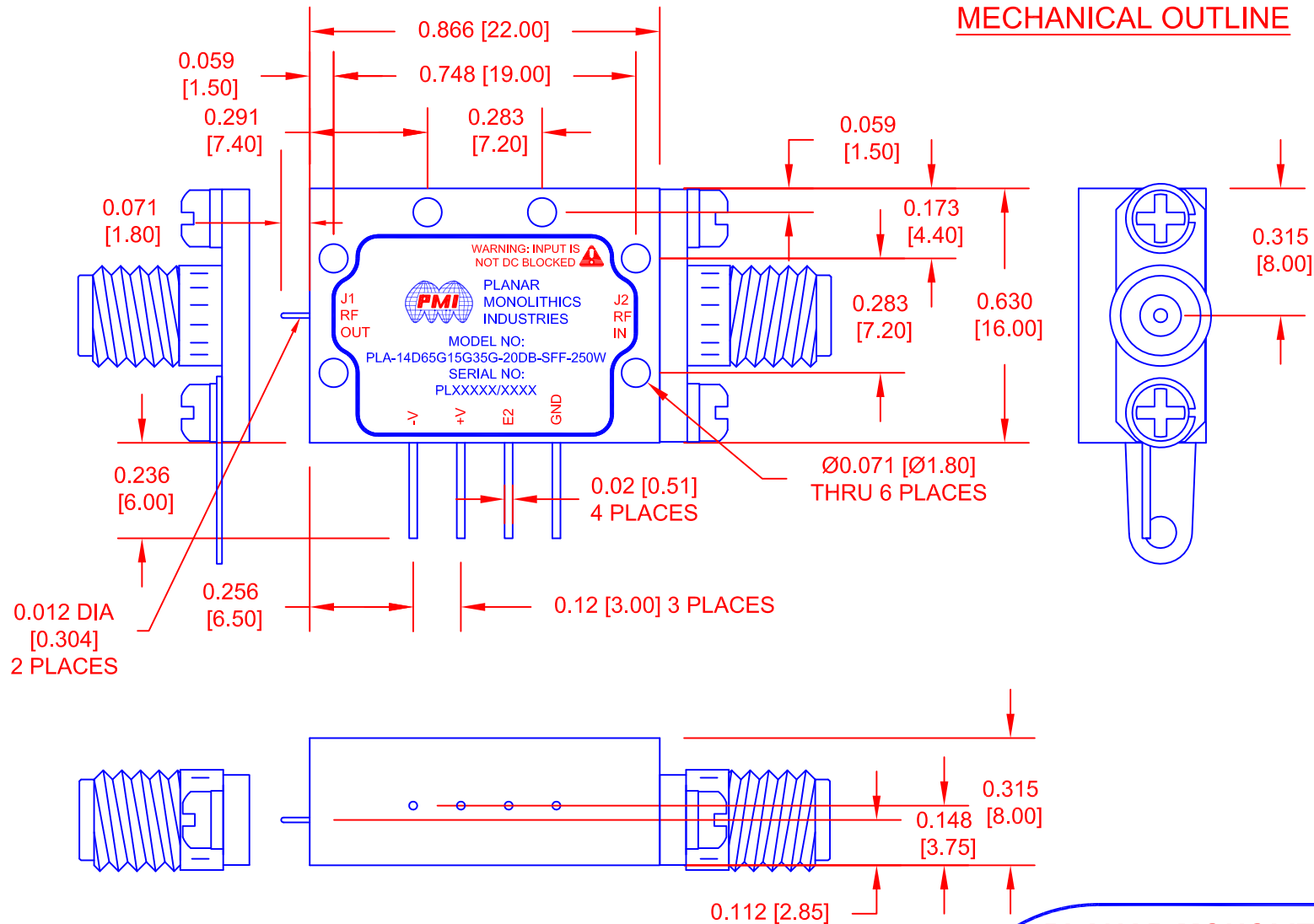
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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>M. Berry</i>		10/09/16		PRODUCT FEATURE PLA-14D65G15G35G-20DB-SFF-250W LIMITER ATTENUATOR	
CHECKED				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO. 27029631	REV. B1
SCALE N:S				SHEET 1 OF 2	

MECHANICAL OUTLINE



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

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APPROVALS		DATE		TITLE		
DRAWN		M. Berry		PRODUCT FEATURE		
CHECKED				PLA-14D65G15G35G-20DB-SFF-250W		
ISSUED				LIMITER ATTENUATOR		
SIZE	FSCM NO.	DWG NO.	REV.			
A	05XQ0	27029631	B1			
SCALE	N:S			SHEET	2 OF 2	