

DESCRIPTION

PMI MODEL: PLA-14D65G15G35G-20DB-SFF-250W IS AN INTEGRATED LIMITER AND ATTENUATOR THAT OPERATES AT 14.65 TO 15.35GHz. THE INSERTION LOSS IS 3.5dB MAXIMUM AND OFFERS 20dB OF ATTENUATION CONTROL VIA A SINGLE LINE TTL SIGNAL. THIS MODEL IS DESIGNED TO HANDLE 250 WATTS PEAK HAVING A PULSE WIDTH OF 40us AND AN AVERAGE POWER OF 25 WATTS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 14.65 TO 15.35 GHz
- INSERTION LOSS: ----- 3.5 dB MAX¹
- PEAK POWER HANDLING: ---- 250 W MAX²
- PULSE WIDTH: ----- 40 μ s TYP²
- AVERAGE POWER: ----- 25 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
- FLAT LEAKAGE: ----- 50 mW MAX³
- SWITCHING SPEED: ----- 90 ns @ 50% TTL TO 10% RF VOLTAGE
90 ns @ 50% TTL TO 90% RF VOLTAGE
- 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: ----- SILVER PLATING

1. @ -10 dBm INPUT AND 0 dB ATTENUATION

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

3. @ 0 dB ATTENUATION & 0 TO 150 W POWER

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-55 °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

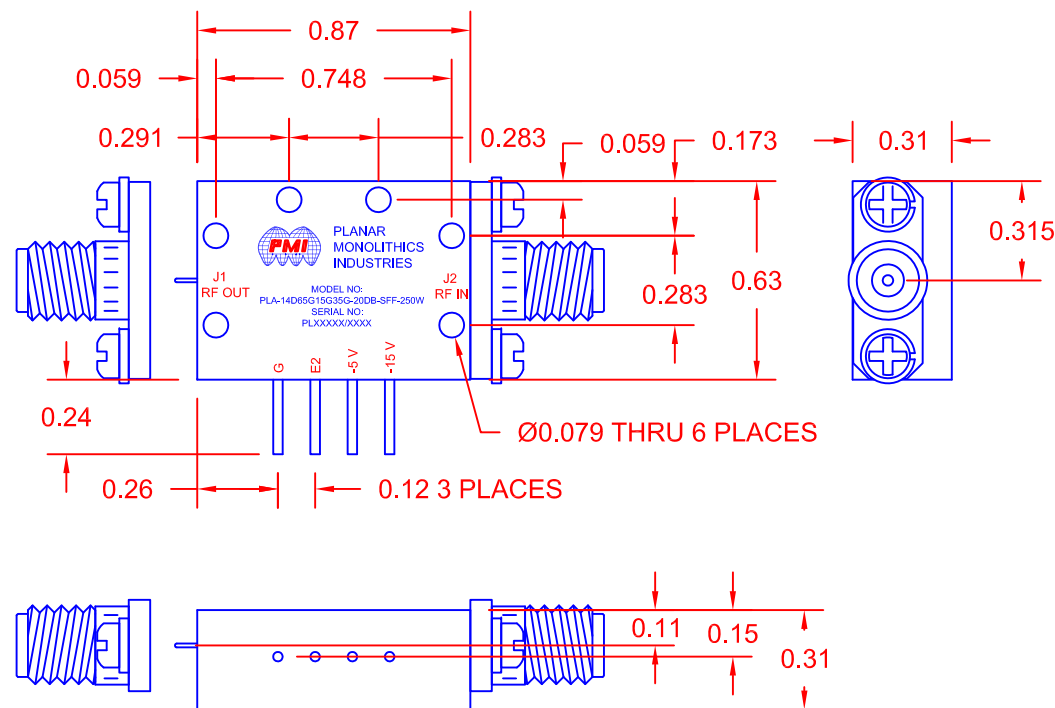
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

| REVISIONS | | | | |
|-----------|------|-------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | PRELIMINARY | 05/28/15 | KM |
| | | | | |
| | | | | |

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



| APPROVALS | | DATE | | TITLE | |
|--------------------------|--|----------|--|---|-------------------|
| DRAWN <i>M. Berry</i> | | 05/28/15 | | PRODUCT FEATURE PLA-14D65G15G35G-20DB-SFF-250W LIMITER ATTENUATOR | |
| CHECKED | | | | SIZE A | FSCM NO. 05XQ0 |
| ISSUED | | | | DWG NO. PRELIMINARY | REV. - |
| SCALE N:S | | | | SHEET 1 OF 1 | |