

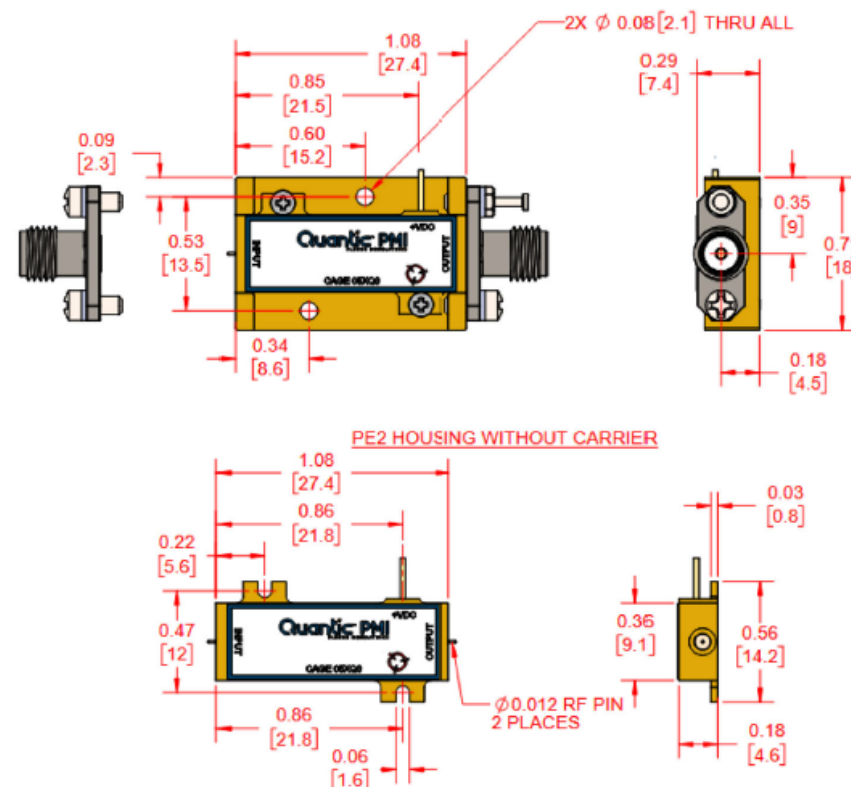
| REVISIONS |      |             |          |          |
|-----------|------|-------------|----------|----------|
| ZONE      | REV. | DESCRIPTION | DATE     | APPROVED |
|           | -    | PRELIMINARY | 06/27/25 |          |
|           |      |             |          |          |
|           |      |             |          |          |

## DESCRIPTION:

PMI MODEL NUMBER PS-25D5G32D5G-360-A-292FF IS AN ANALOG CONTROLLED PHASE SHIFTER DESIGNED TO OPERATE OVER THE 25.5 TO 32.5 GHz FREQUENCY RANGE. THIS MODEL UTILIZES A PHASE SHIFT CONTROL VOLTAGE OF 0 TO +5 V FOR A CORRESPONDING PHASE SHIFT OF 0 TO 360 DEGREES. THIS MODEL IS PACKAGED IN PMI'S STANDARD PE2 HOUSING WITH 2.92 MM FEMALE CONNECTORS IN AND OUT.

## SPECIFICATIONS:

- FREQUENCY: 25.5 GHz TO 32.5 GHz
- PHASE SHIFT RANGE: 0 TO 360 DEGREES
- CONTROL VOLTAGE: 0 TO +5 V
- INSERTION LOSS: 10 dB MAXIMUM  
7 dB TYPICAL
- VSWR: 3.6:1 MAXIMUM
- INPUT POWER: 20 dBm MAXIMUM
- INSERTION LOSS VARIATION: +/-2 dB MAXIMUM
- PHASE VARIATION: +/-25 DEGREES MAXIMUM
- POWER SUPPLY: +2V @ 20 mA MAXIMUM
- RF CONNECTORS: 2.92 MM FEMALE CONNECTORS
- FINISH: GOLD PLATED



PMI CONFIDENTIAL AND PROPRIETARY

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- 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. B

## PLANAR MONOLITHICS INDUSTRIES, INC.

7309-A GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.quanticmpmi.com](http://www.quanticmpmi.com)  
E-MAIL: [sales@quanticmpmi.com](mailto:sales@quanticmpmi.com)  
ISO 9001 CERTIFIED



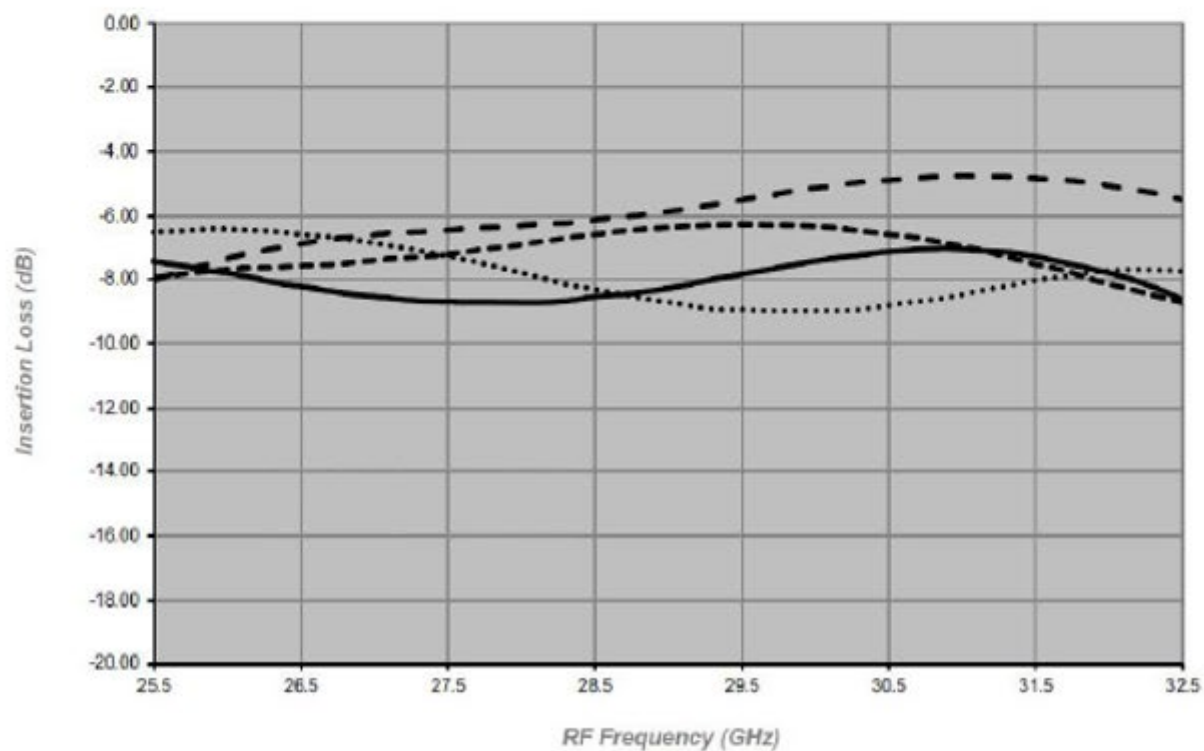
| APPROVALS |  | DATE           |  | TITLE                     |  |
|-----------|--|----------------|--|---------------------------|--|
| DRAWN AG  |  | 06/27/25       |  | PRODUCT FEATURE           |  |
| CHECKED   |  |                |  | PS-25D5G32D5G-360-A-292FF |  |
| ISSUED    |  |                |  | PRELIMINARY               |  |
| SIZE A    |  | PSCM NO. 05XQ0 |  | CWSG NO.                  |  |
| SCALE N:S |  |                |  | SHEET 1 OF 1              |  |

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

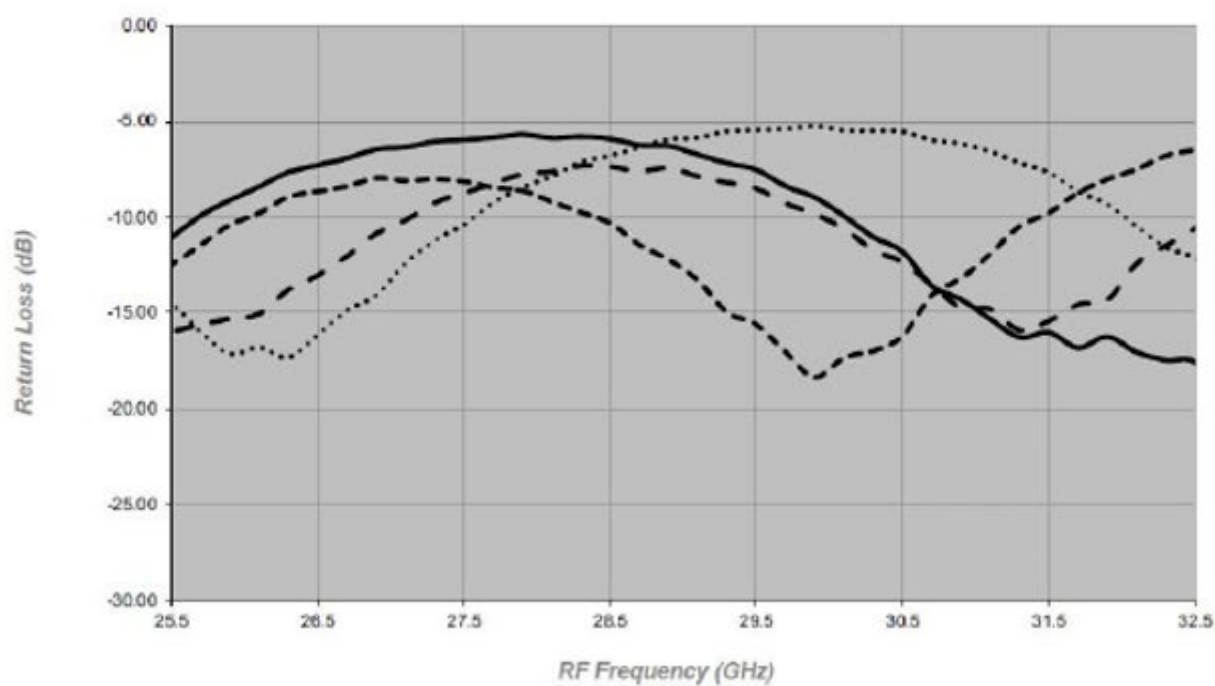
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 2.75 oz.

# Measured Performance Data

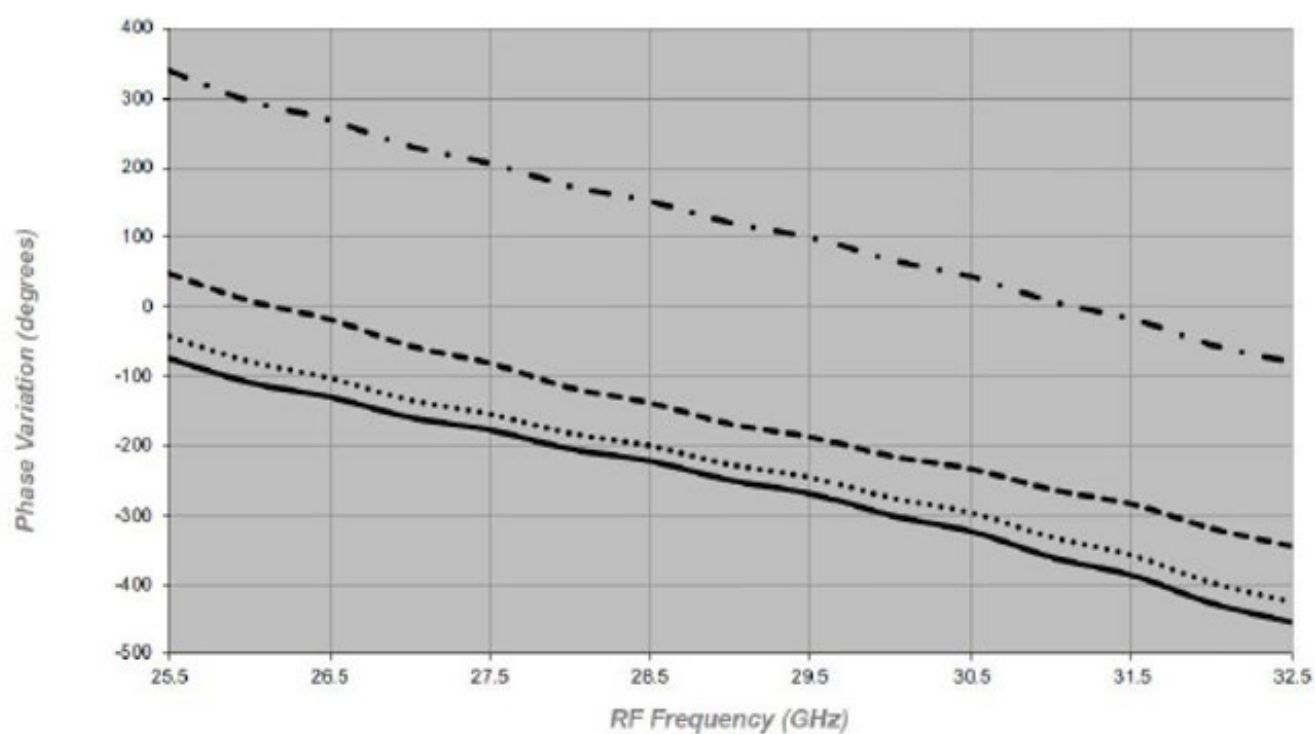
## Insertion Loss



## Output Return Loss



## Absolute Phase Shift



## Relative Phase Shift

