

**TYPICAL CHARACTERISTICS  
ON  
ISO-618-10-SFF**

**PMI MODEL NO. ISO-618-10-SFF IS A 6 TO 18 GHz COAXIAL ISOLATOR**



**Tuesday, August 13, 2024**

**Designed and Reported By: M. Laulis**

**Tested By:  
Kevin C**

# TYPICAL CHARACTERISTICS ON ISO-618-10-SFF

## Outline Drawing

### DESCRIPTION:

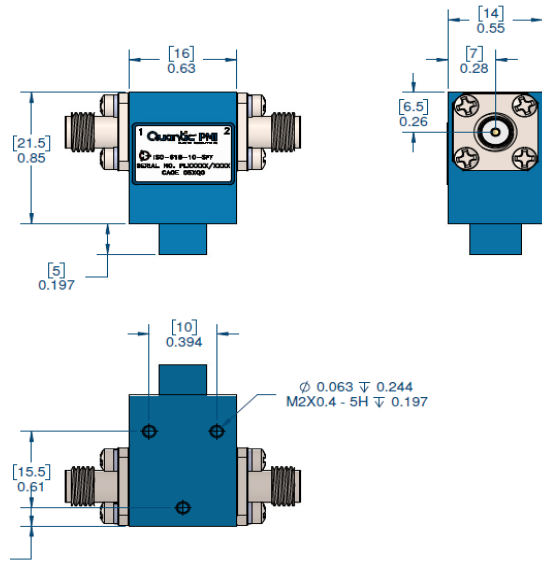
PMI MODEL NO. ISO-618-10-SFF IS A 6 TO 18 GHz COAXIAL ISOLATOR

### SPECIFICATIONS:

- FREQUENCY RANGE:..... 6.0 TO 18.0 GHz
- INSERTION LOSS:..... 1.5 dB MAX
- ISOLATION:..... 10 dB MIN
- VSWR:..... 1.9:1 MAX
- FORWARD POWER:..... 60 W
- REVERSE POWER:..... 10 W
- CONNECTORS:..... SMA FEMALE
- SIZE:..... 0.85" X 0.63" X 0.55"
- FINISH:..... PAINTED BLUE

### ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... +25°C TO +70°C (OPERATING)
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B  
MIL-STD-202, METHOD 213B COND. B



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

| ZONE | REV | DESCRIPTION      | DATE      | APPROVED |
|------|-----|------------------|-----------|----------|
|      | A1  | ORIGINAL RELEASE | 6/10/2004 |          |

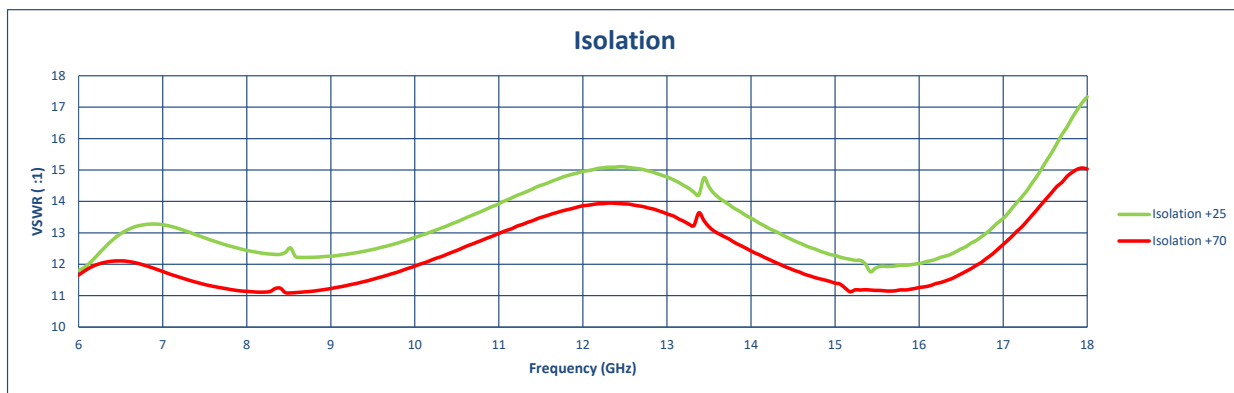
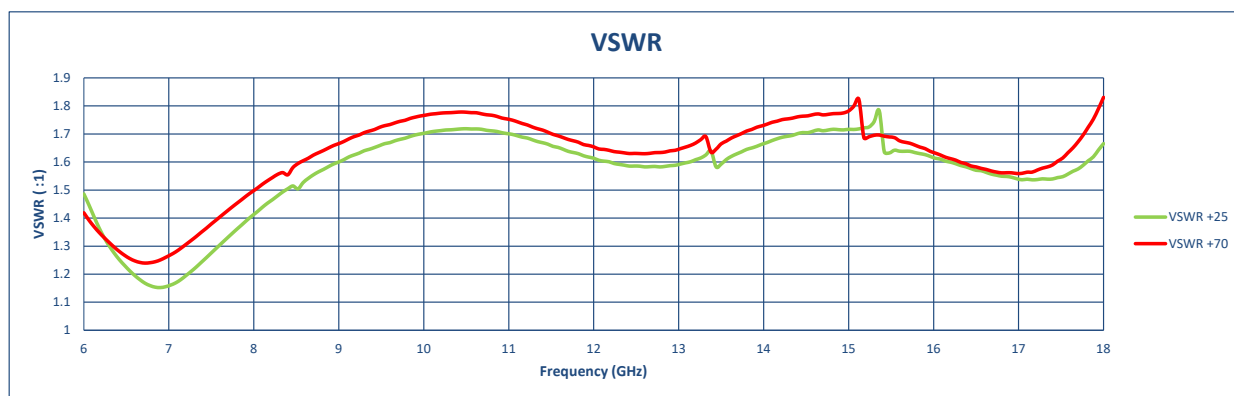
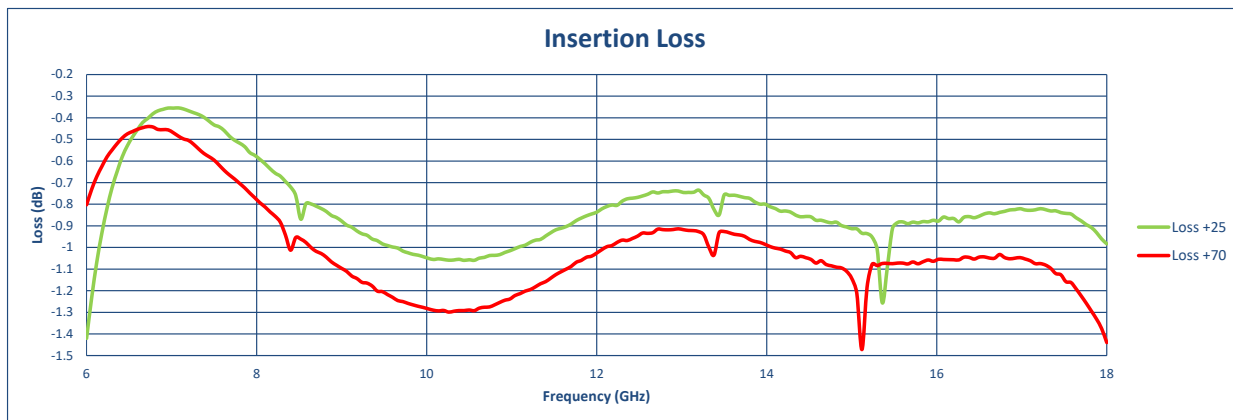
PMI CONFIDENTIAL AND PROPRIETARY

|               |  |           |                |  |
|---------------|--|-----------|----------------|--|
| APPROVALS     |  | DATE      | TITLE          |  |
| M. LAULIS     |  | 6/10/2004 | ISO-618-10-SFF |  |
| DESIGNED      |  | DATE      | REV            |  |
| B. J. OSAKADA |  | 27049020  | A1             |  |
| SCALE         |  | 2:1       | SHEET 1 OF 1   |  |

**TYPICAL CHARACTERISTICS  
ON  
ISO-618-10-SFF**

| TEST<br>ITEM NO. | PARAMETERS       | SPECIFIED VALUE                      | Test Results         |                      | QA<br>QC |
|------------------|------------------|--------------------------------------|----------------------|----------------------|----------|
|                  |                  |                                      | +25°C                | +70°C                |          |
| 1                | Frequency Range: | 4 GHz to 18 GHz                      | 4 GHz to 8 GHz       | 4 GHz to 8 GHz       |          |
| 2                | Insertion Loss:  | 2.0 dB Max.<br>@ -10 dBm Input Power | 1.42 dB<br>See Graph | 1.47 dB<br>See Graph |          |
| 3                | VSWR:            | 2.0:1 Max.<br>@ -10 dBm Input Power  | 1.78:1<br>See Graph  | 1.83:1<br>See Graph  |          |
| 4                | Isolation:       | 10 dB MIN                            | 11.8                 | 11.1                 |          |
| 5                | Forward Power:   | 60 W                                 | Pass                 | Pass                 |          |
| 6                | Reverse Power:   | 10 W                                 | Pass                 | Pass                 |          |

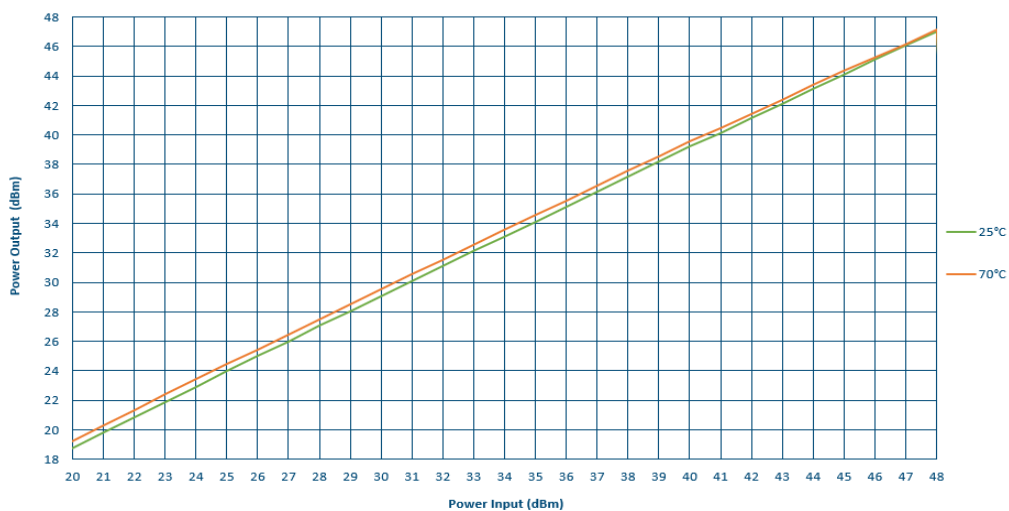
# TYPICAL CHARACTERISTICS ON ISO-618-10-SFF



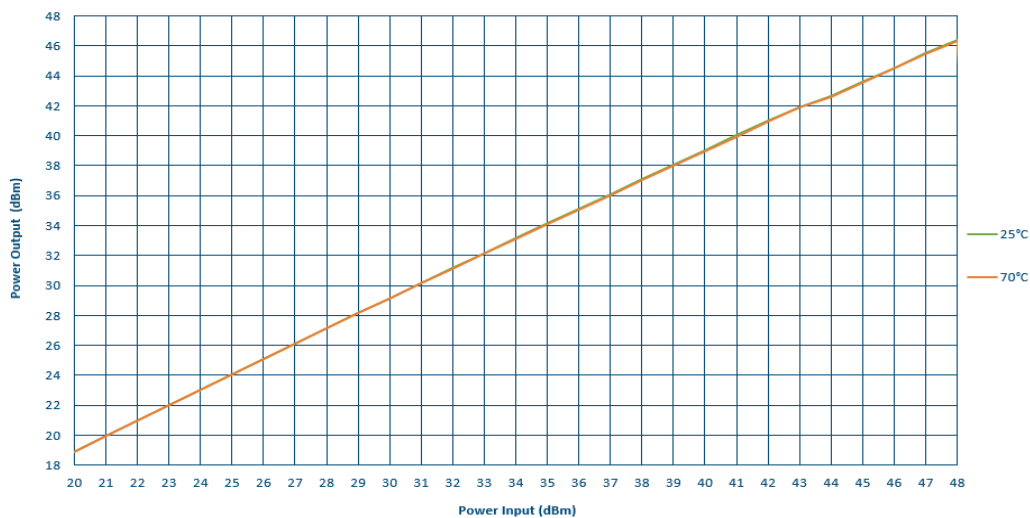
# TYPICAL CHARACTERISTICS ON ISO-618-10-SFF

## Forward Power:

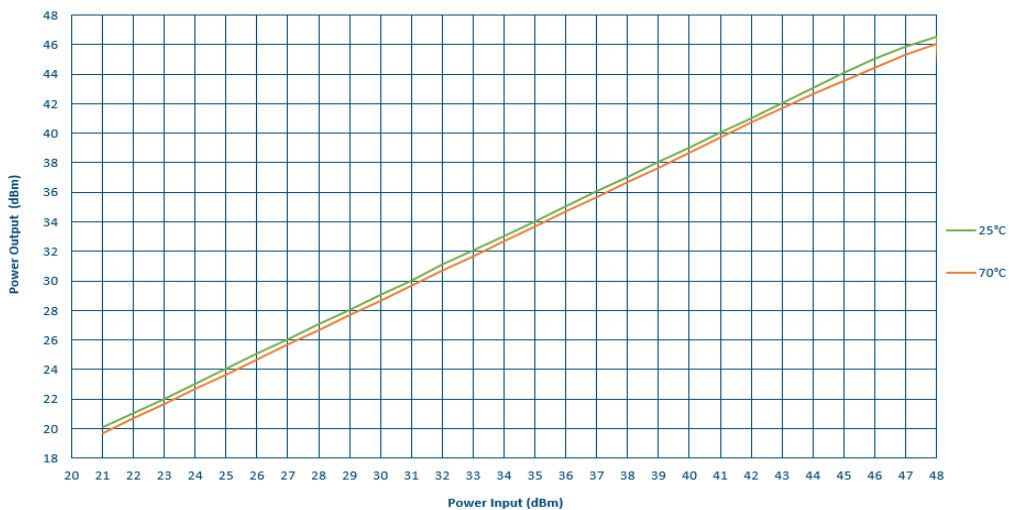
**High Power Test Graph @ 6 GHz**



**High Power Test Graph @ 8 GHz**



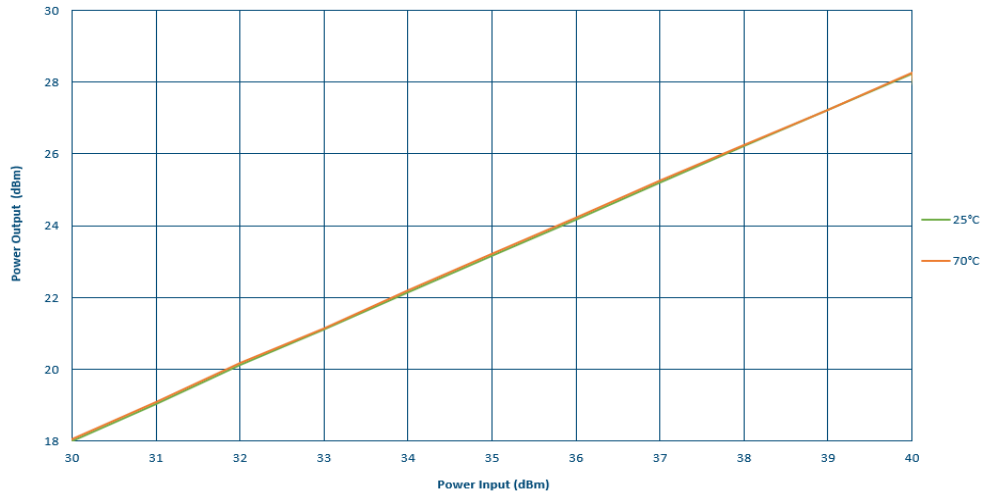
**High Power Test Graph @ 18 GHz**



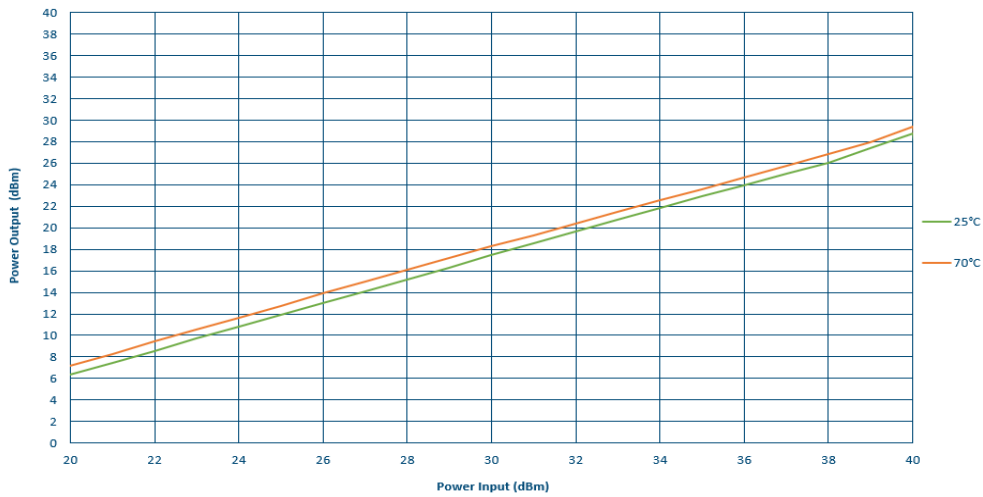
# TYPICAL CHARACTERISTICS ON ISO-618-10-SFF

## Reverse Power

High Power Test Graph @ 6 GHz



High Power Test Graph @ 8 GHz



High Power Test Graph @ 18 GHz

