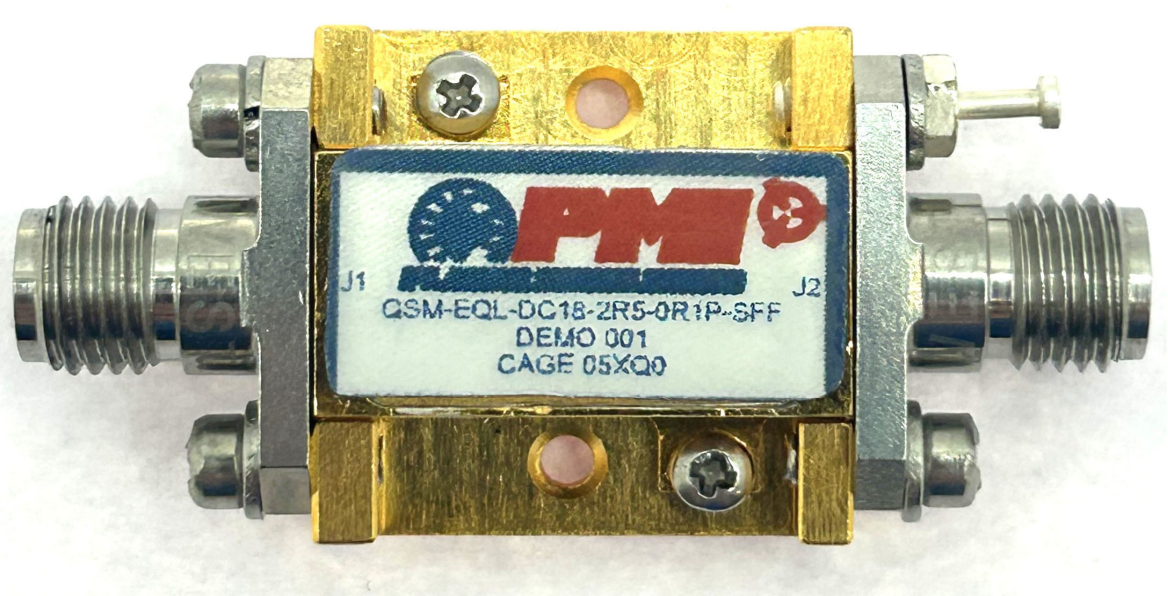
Typical Characteristics
ON
QSM-EQL-DC18-2R5-0R1P-SFF

PMI MODEL NUMBER QSM-EQL-DC18-2R5-0R1P-SFF IS A DC TO 18 GHz EQUALIZER. THIS EQUALIZER IS SUPPLIED IN OUR STANDARD QSM HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
R. SIRK

DATE
October 20, 2025

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

Typical Characteristics
ON
QSM-EQL-DC18-2R5-0R1P-SFF

Outline Drawing

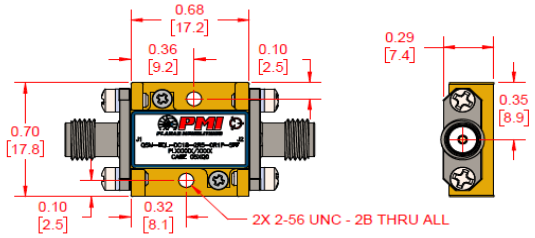
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/21/2020	

DESCRIPTION:
PMI MODEL NUMBER QSM-EQL-DC18-2R5-0R1P-SFF IS A DC TO 18 GHz EQUALIZER. THIS EQUALIZER IS SUPPLIED IN OUR STANDARD PEAFS3 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.

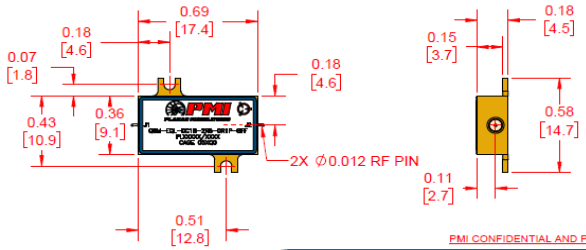
SPECIFICATIONS:

- FREQUENCY RANGE: ..... DC TO 18 GHz
- INSERTION LOSS @ 18 GHz: ..... 1 dB MAX
  0.75 dB TYP
- NOMINAL SLOPE: ..... 0.1 dB/GHz NOM
- SLOPE LINEARITY: ..... ±0.5 dB MAX
  (FROM BEST FIT STRAIGHT LINE)
- VSWR: ..... 2.0:1 MAX
- RF INPUT POWER: ..... +30 dBm MAX
- CONNECTORS: ..... SMA FEMALE CONNECTORS
- FINISH: ..... GOLD PLATED

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... -40°C TO +85°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202, METHOD 103 COND. B
- SHOCK: ..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION: ..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: ..... MIL-STD-202, METHOD 105 COND. A
- TEMPERATURE CYCLE: ..... MIL-STD-202, METHOD 107 COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: R. SIRK	10/21/2020
REDRAWN	
ISSUED	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± | DECIMALS .XX ± 0.02 .XXX ± 0.01 | ANGLES ±

PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK, MARYLAND 21704 USA
WEB: WWW.QUANTUMRFIC.COM EMAIL: SALES@QUANTUMRFIC.COM

TITLE: OUTLINE
QSM-EQL-DC18-2R5-0R1P-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27053580	A1

SCALE 2:1 SHEET 1 OF 1

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Typical Characteristics
ON
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Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-40°C	+25°C	+85°C
1	Frequency Range:	DC TO 18 GHz	DC TO 18 GHz		
2	Insertion Loss @ 18 GHz	1 dB Max 0.75 dB Typ	0.56 dB See Graph	0.67 dB See Graph	0.77 dB See Graph
3	Nominal Slope:	0.1 dB/GHz Nom	0.12 dB/GHz	0.11 dB/GHz	0.11 dB/GHz
4	Slope Linearity: (from best fit straight line)	±0.5 dB Max	0.29 dB Max -0.17 dB Min See Graph	0.32 dB Max -0.16 dB Min See Graph	0.28 dB Max -0.16 dB Min See Graph
5	VSWR (J1):	2 :1 Max	1.72 :1 See Graph	1.71 :1 See Graph	1.7 See Graph
6	VSWR (J2):	2 :1 Max	1.66 :1 See Graph	1.66 :1 See Graph	1.66 :1 See Graph
7	RF Input Power:	+30 dBm Max	+30 dBm Max		

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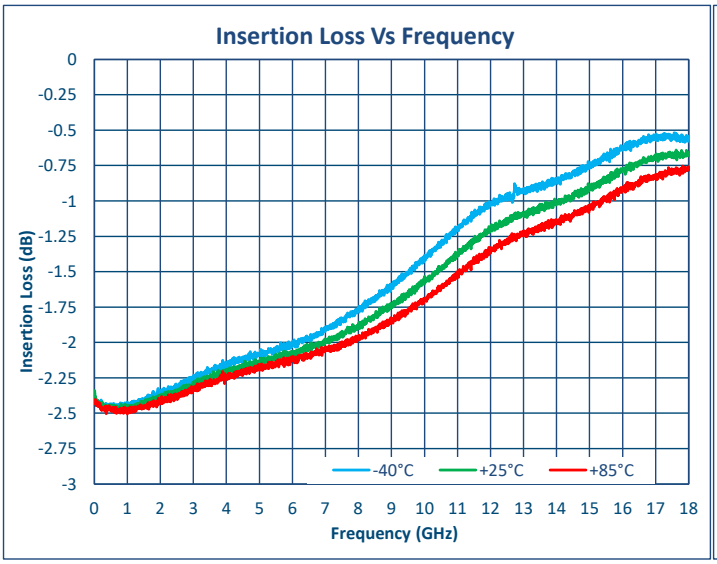

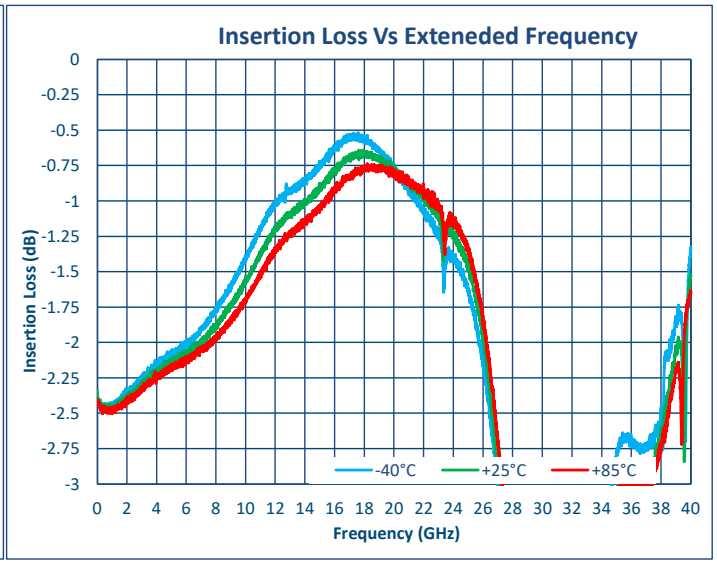

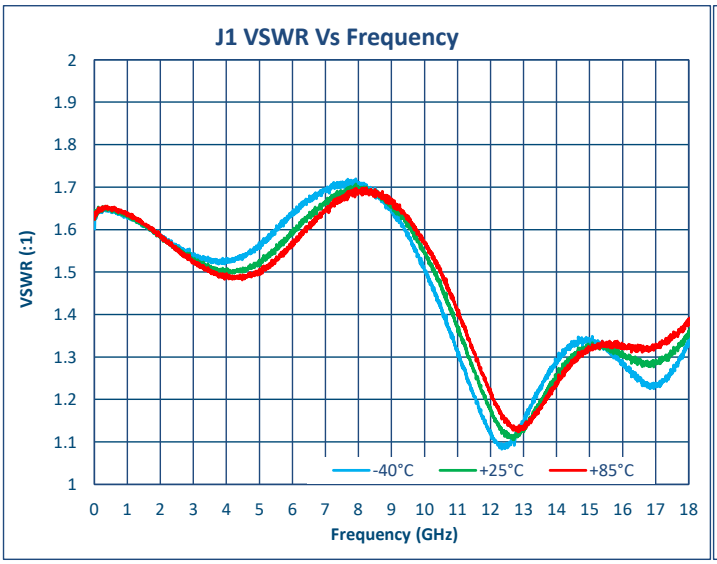

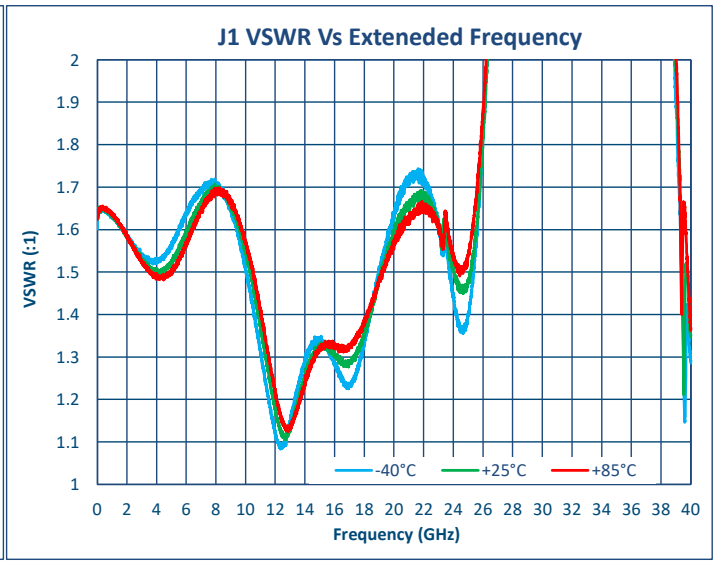

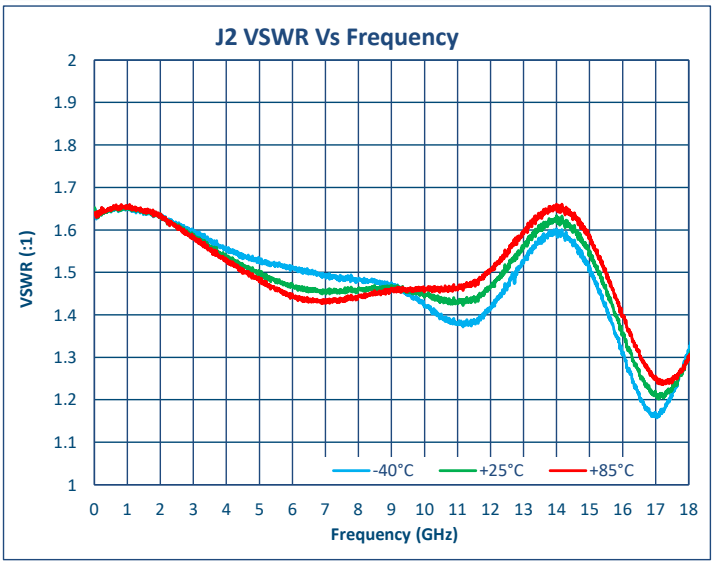

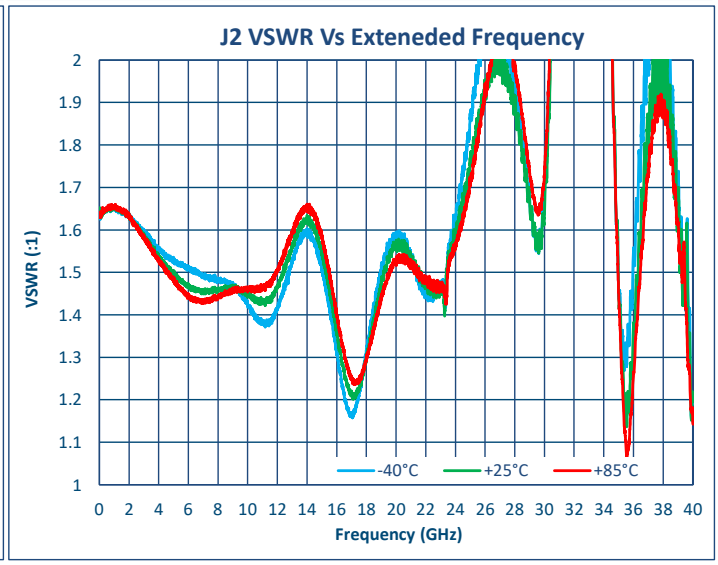

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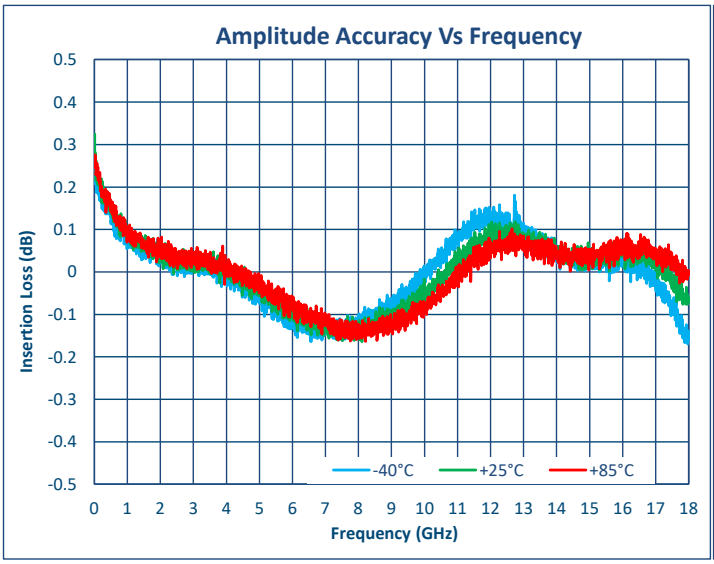

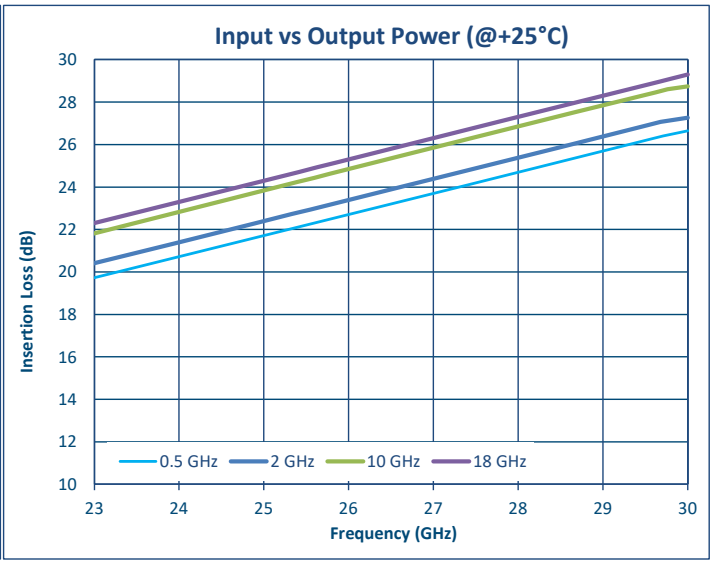

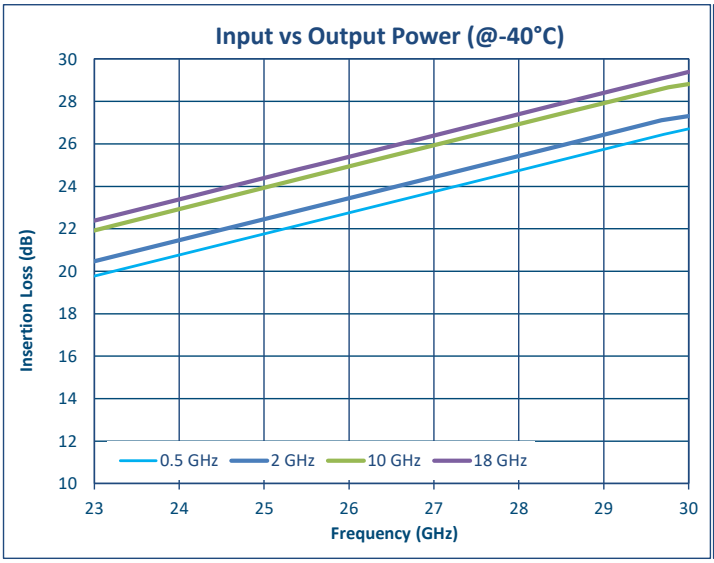

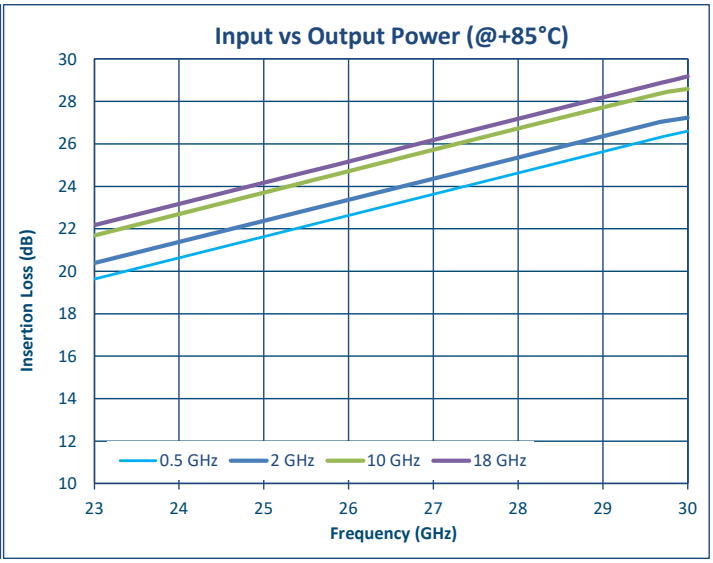

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