

Typical Characteristics ON EQL-DC20-10-SFM

EQL-DC20-10-SFM IS A DC TO 20 GHz PASSIVE EQUALIZER WITH A 10 dB TYP. LOSS AT DC WITH A INSERTION LOSS OF 1.5 dB TYP. AT 20 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.



April 24, 2023

**Designed By:
Engineering PMI**

**Drawings By:
J. Escano**

**Tested and Reported By:
Keith Wagaman & Y Li**

Typical Characteristics ON EQL-DC20-10-SFM

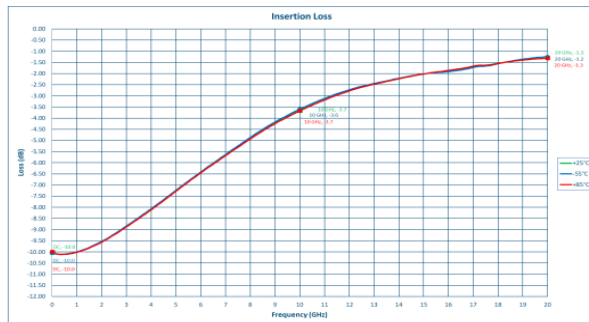
Outline Drawing

DESCRIPTION:

EQL-DC20-10-SFM IS A DC TO 20 GHz PASSIVE EQUALIZER WITH A 10 dB TYP. LOSS AT DC WITH AN INSERTION LOSS OF 1.5 dB TYP. AT 20 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.

SPECIFICATIONS:

- | | |
|--------------------|---|
| ● FREQUENCY RANGE: | DC TO 20 GHz |
| ● INSERTION LOSS: | 10.0 dB @ DC TYP.
1.5 dB @ 20 GHz TYP. |
| ● VSWR: | 1.8:1 TYP.
2.0: MAX |
| ● NOMINAL SLOPE: | SEE PLOT |
| ● WEIGHT: | 1.0 oz MAX |
| ● CONNECTORS: | SMA FEMALE/MALE REMOVEABLE |
| ● FINISH: | GOLD PLATED |



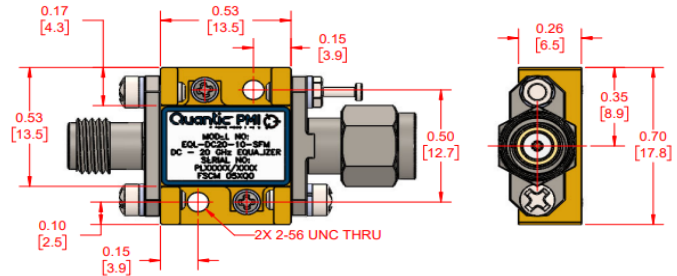
ENVIRONMENTAL RATINGS:

- TEMPERATURE:.....-55°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. A

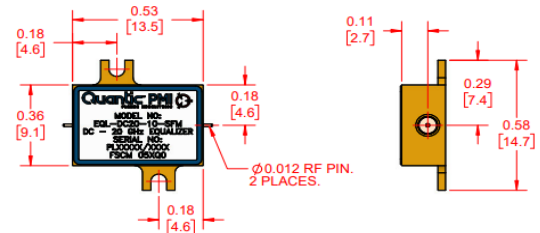
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

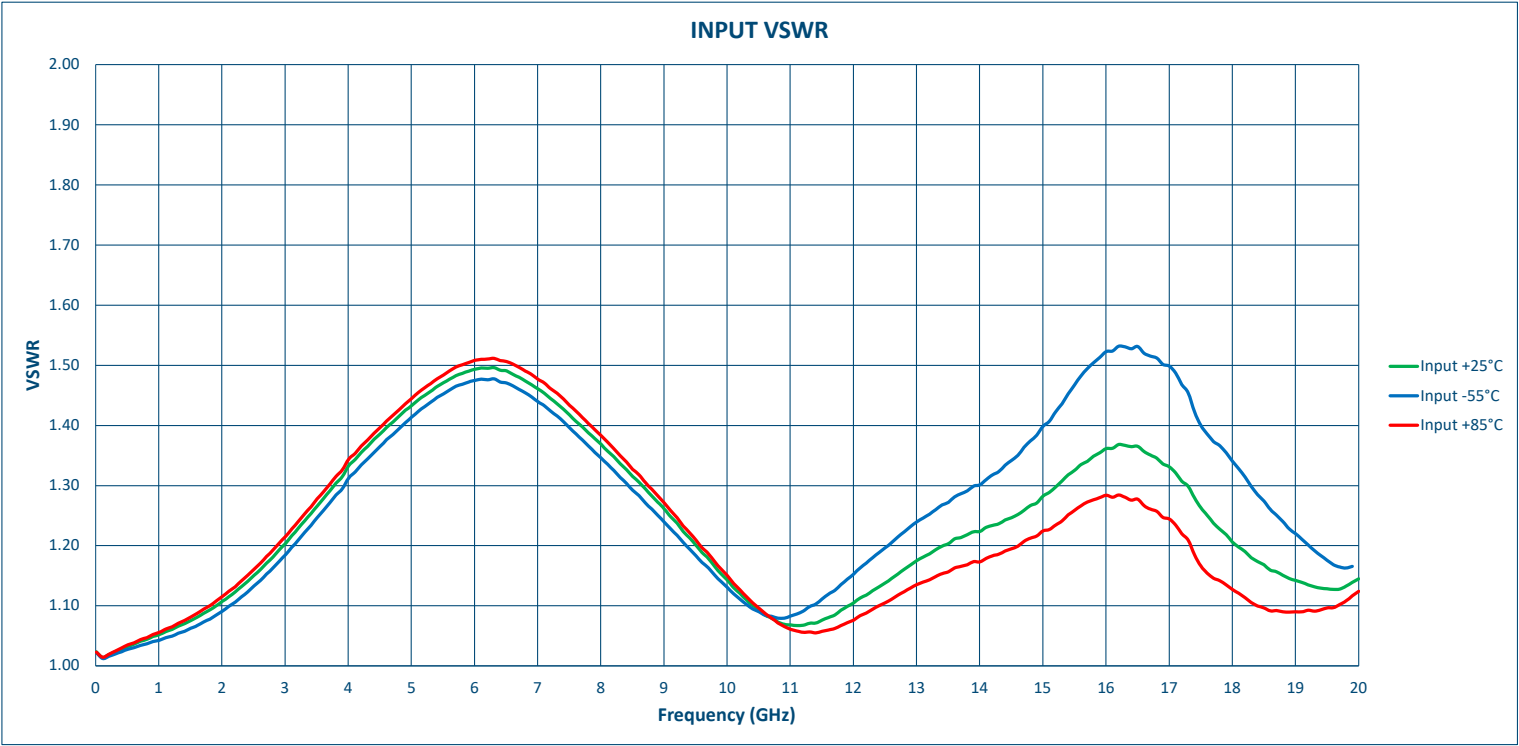
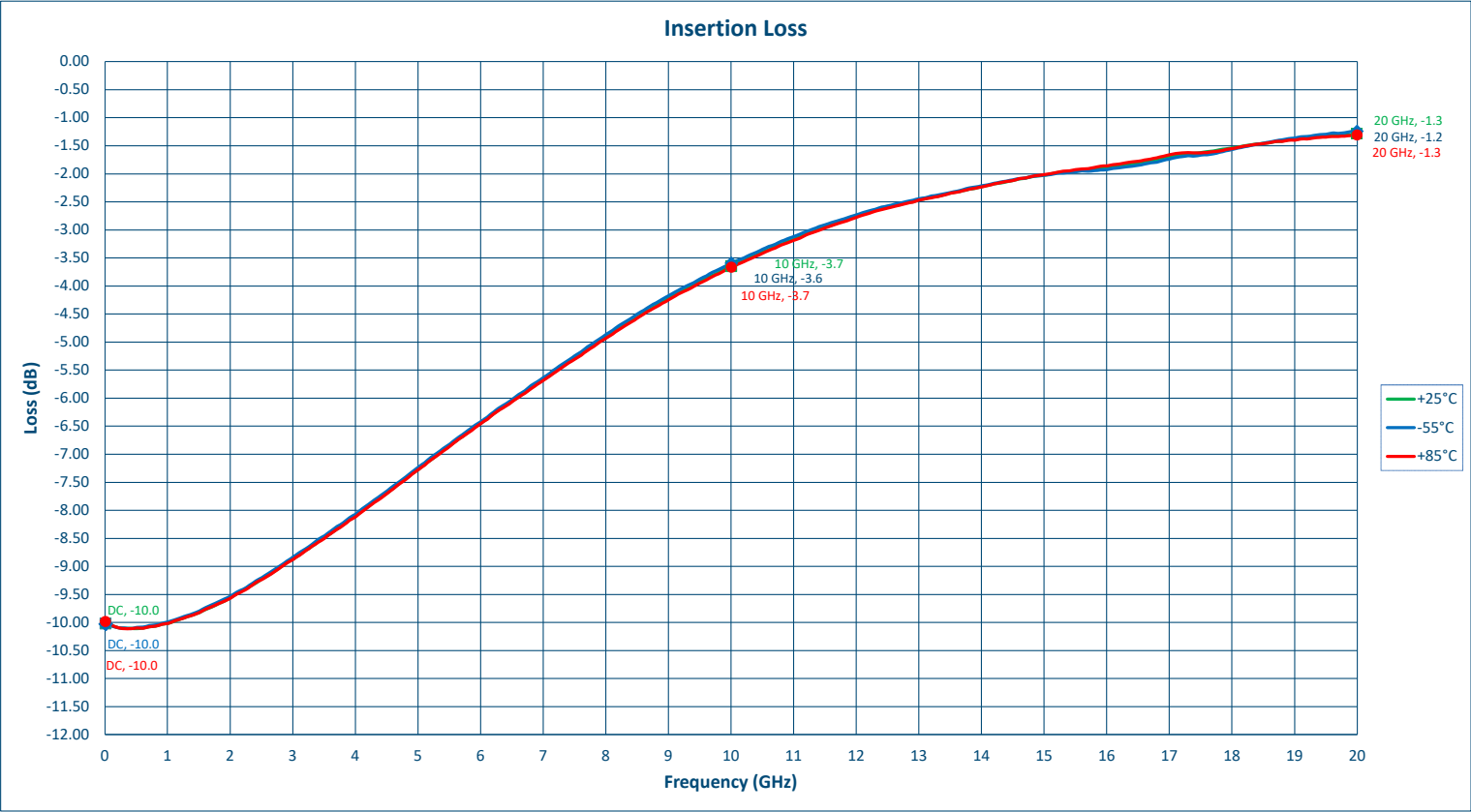
 7330 N. GREENE ROAD FREDERICKSBURG, VA 22404 USA TEL: 757-328-7000 FAX: 757-328-7001 WWW.QUANTECPMI.COM QUANTEC@QUANTECPMI.COM	
APPROVALS DATE	TITLE
J ESCANO 01/17/2002	OUTLINE EGL-DC20-10-SFM
REDRAWN REUSED	QEGD NO. 270455940
QEGD NO. 61500	NET. B1
SCALE: 1/8" = 1'-0"	
SHEET 1 OF 1	

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ON
EQL-DC20-10-SFM**

Test Data

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	DC to 20GHz	DC to 20GHz	DC to 20GHz	DC to 20GHz
2	Insertion Loss	10 dB @ DC Typ. 1.5 dB @ 20GHz Typ.	10.02 dB See Graph	10.03 dB See Graph	9.98 dB See Graph
			1.29 dB See Graph	1.24 dB See Graph	1.31 dB See Graph
3	VSWR (in/out)	1.8:1 Typ. 2.0:1 Max.	1.5 :1 Input See Graph	1.53 :1 Input See Graph	1.51 :1 Input See Graph
			1.48 :1 Output See Graph	1.55 :1 Output See Graph	1.49 :1 Output See Graph
4	Nominal Slope	See Plot in Outline	Pass	Pass	Pass

Typical Characteristics
ON
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