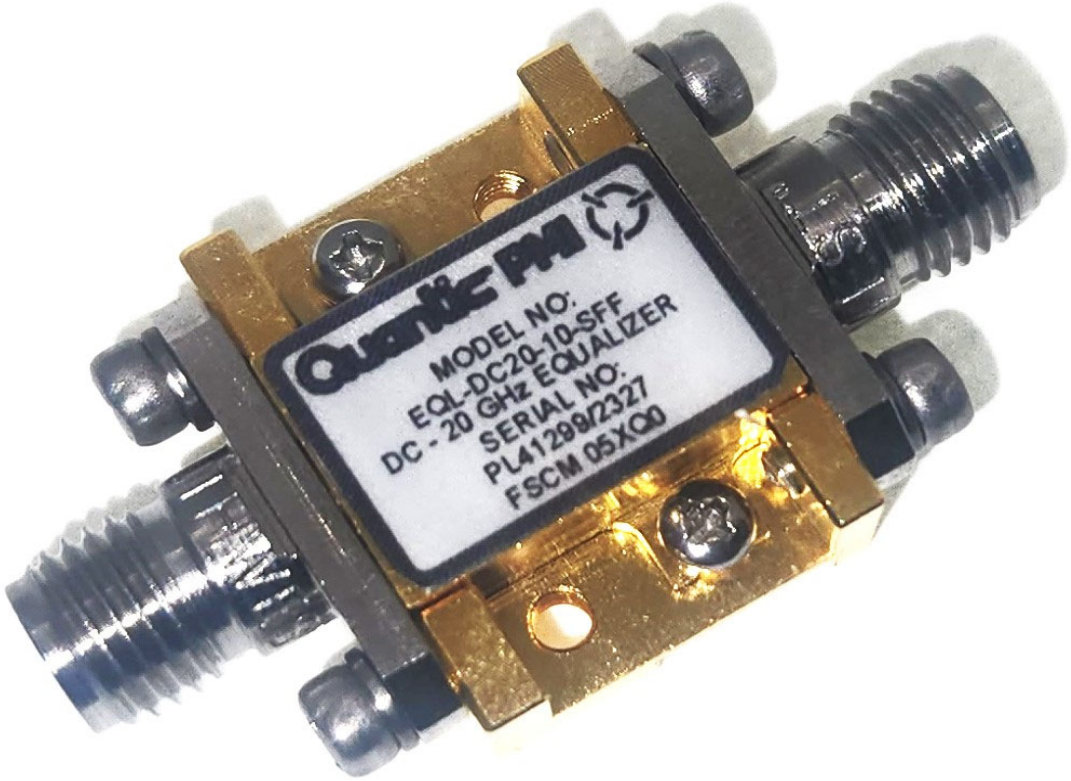
Typical Characteristics on EQL-DC20-10-SFF

EQL-DC20-10-SFF 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.



July 20, 2023

Designed By:

Engineering PMI

Drawings By and Reported By:

Matthew Laulis

Tested:

Kevin Mansfield

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

Typical Characteristics
ON
EQL-DC20-10-SFF

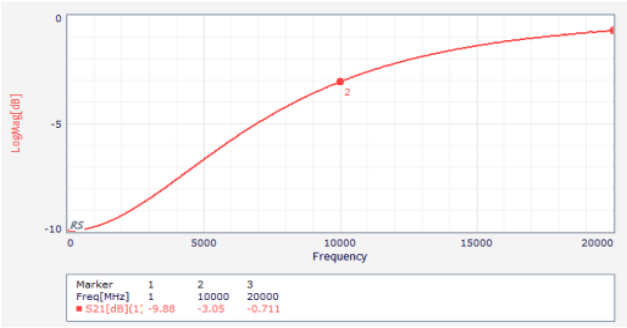
Outline Drawing

DESCRIPTION:

EQL-DC20-10-SFF IS A DC TO 20 GHz PASSIVE EQUALIZER WITH A 10 dB TYP. LOSS AT DC WITH AN INSERTION LOSS OF 1 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.
  0.75 dB @ 20 GHz TYP.
- VSWR:..... 1.8:1 TYP.
  2.0: MAX
- NOMINAL SLOPE:..... 10 dB NOM.
- WEIGHT:..... 1.0 oz MAX.
- CONNECTORS:..... SMA FEMALE/MALE REMOVEABLE
- FINISH:..... GOLD PLATED



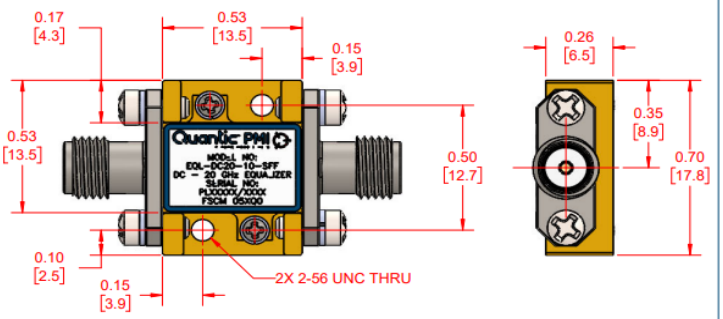
ENVIRONMENTAL RATINGS:

- 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

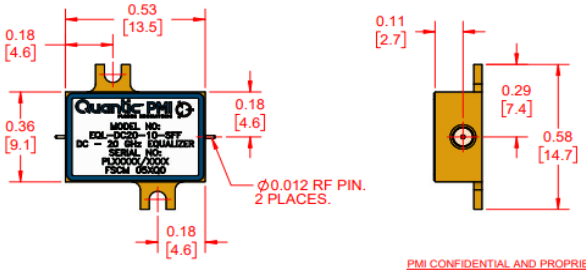
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/11/2023	
	B1	ECN # 25-0015	1/22/2025	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: M LAULIS	4/11/2023
REDRAWN	
DESIGNED	

TITLE: OUTLINE
EQL-DC20-10-SFF
SIZE: B | FSCM NO.: 05XQ0 | DWG NO.: 27046260 | REV.: B1
SCALE 3:1 | SHEET 1 OF 1

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Quantic PMI
PLANAR MONOLITHICS

Typical Characteristics
ON
EQL-DC20-10-SFF

Test Data

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS			QA QC
			-55°	+25°	+85°	
1	Frequency Range:	DC to 20 GHz	DC to 20 GHz			
2	Insertion Loss:	10 dB @ DC Typ. 0.75 dB @ 20 GHz Typ.	10.36 dB 1.1 dB	10.29 dB 1.19 dB	10.27 dB 1.23 dB	
			See Plot			
3	VSWR:	1.8:1 Typ. 2.0:1 Max.	1.68:1	1.57:1	1.5:1	
			See Plot			
4	Nominal Slope: (dB/20 GHz)	10 dB Nom.	9.28 dB	9.12 dB	9.06 dB	

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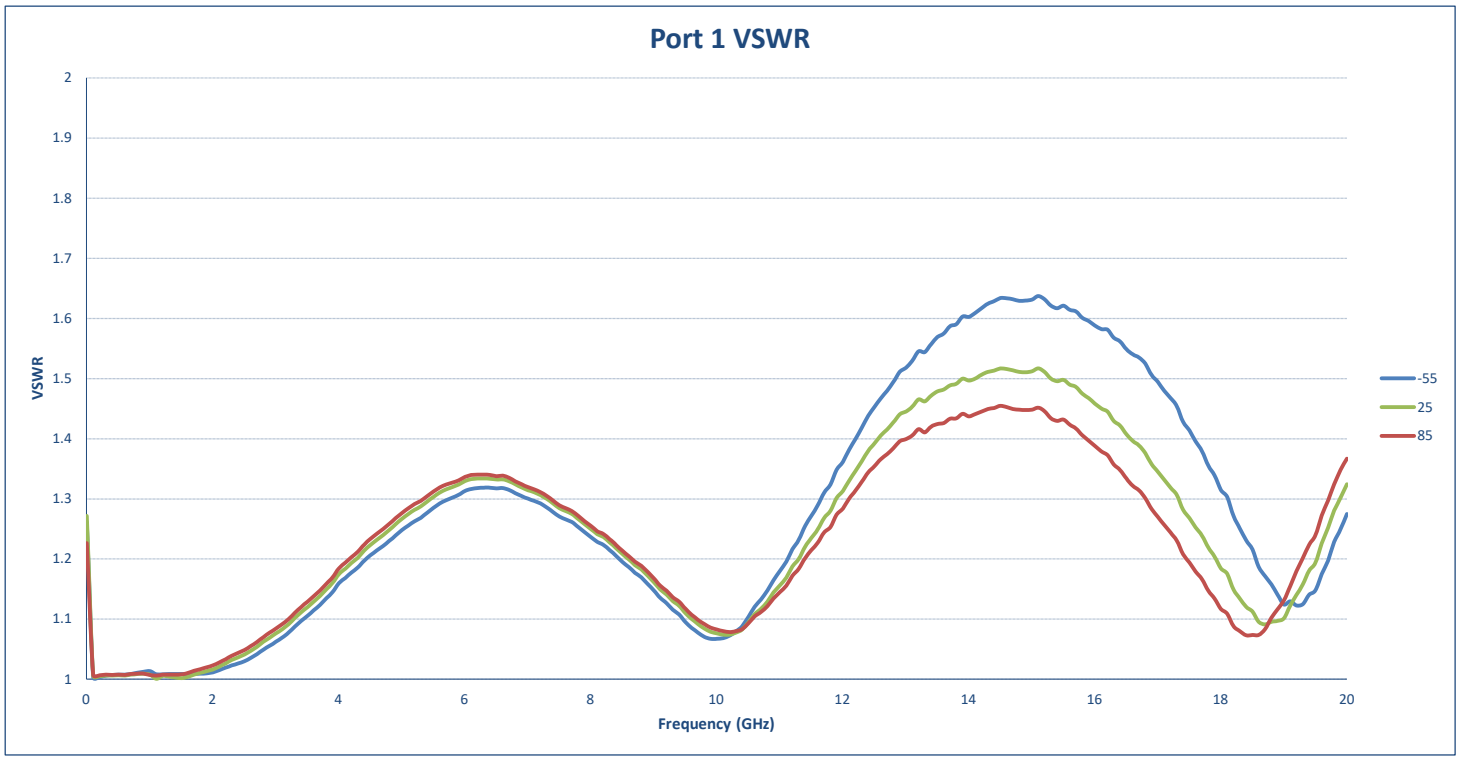
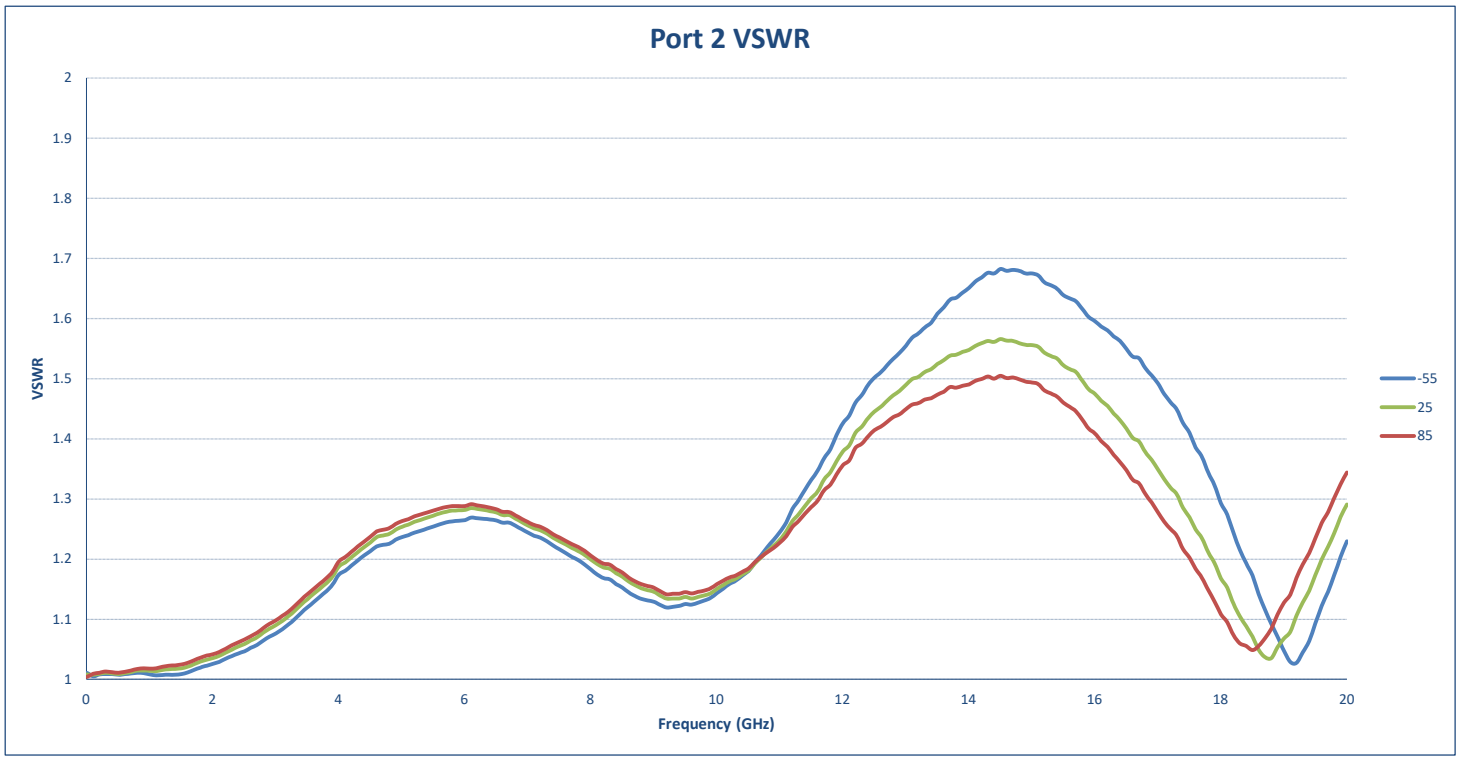
SUMMARY TEST DATA
ON
EQL-DC20-10-SFF





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