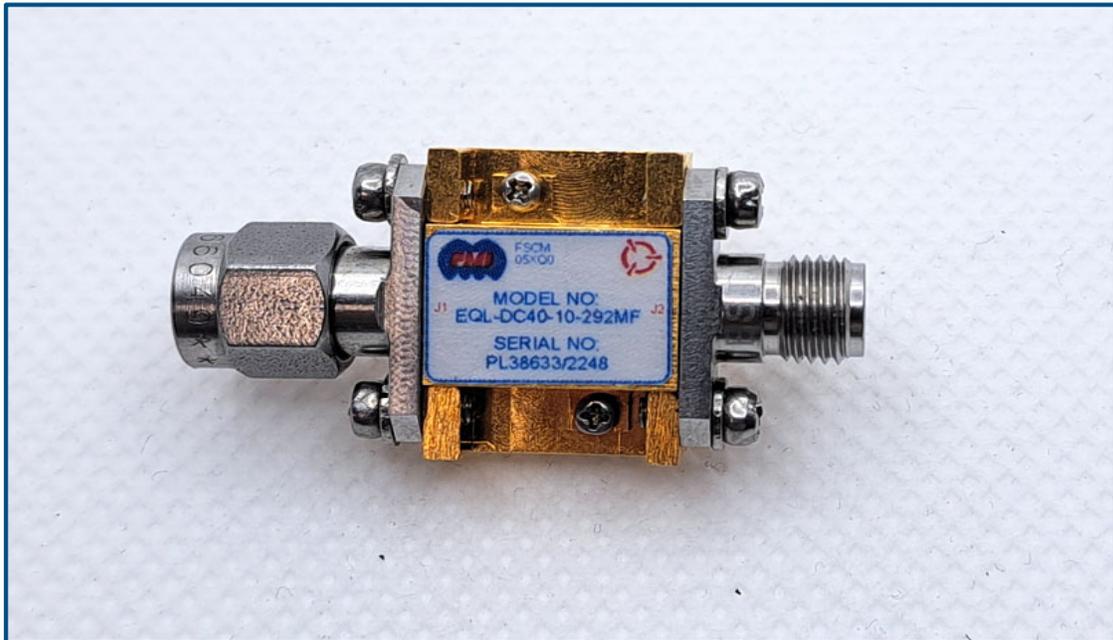


Typical Characteristics ON EQL-DC40-10-292MF

EQL-DC40-10-292MF IS A DC TO 40 GHz PASSIVE EQUALIZER WITH A 12 dB MAX. LOSS AT 10MHz WITH A INSERTION LOSS OF 2.5 dB MAX. AT 40 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.



November 28, 2022

Designed By:

Engineering PMI

Technical Drawings

Noor Azhar

Tested and Reported By:

Alfredo Lopez

Typical Characteristics ON EQL-DC40-10-292MF

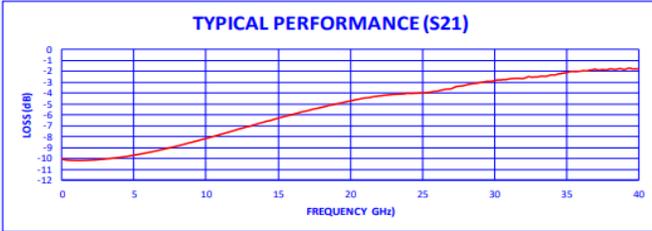
Product Feature

DESCRIPTION:

EQL-DC40-10-292MF IS A DC TO 40 GHz PASSIVE EQUALIZER WITH A 12 dB MAX LOSS AT 10MHz WITH AN INSERTION LOSS OF 2.5 dB MAX AT 40 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.

SPECIFICATIONS:

- FREQUENCY RANGE: DC TO 40 GHz
- INSERTION LOSS: 12.0 dB @ 10MHz - 2 GHz MAX
2.5 dB @ 38 - 40 GHz MAX
+30 dBm (1W) MAX
- INPUT POWER: 1.6:1 TYP.
1.8:1 MAX
- VSWR: 0.25 ± 0.06 dB/GHz MAX
- SLOPE: ± 2 dB MAX (COMPARED TO BEST FIT STRAIGHT LINE)
- AMPLITUDE ACCURACY: 10g MAX
- WEIGHT: 2.92mm MALE/FEMALE REMOVABLE
- CONNECTORS: GOLD PLATED
- FINISH: GOLD PLATED



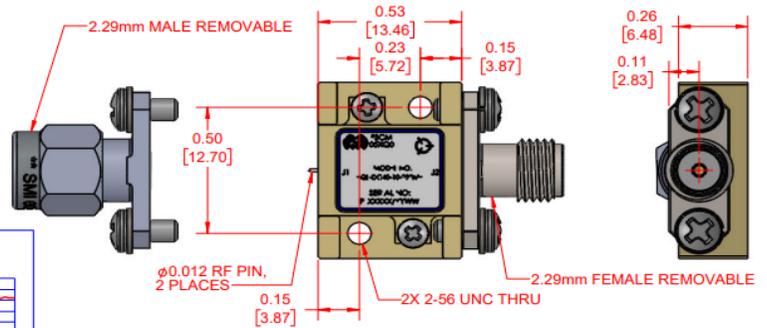
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: ML-STD-202, METHOD 103B COND. B
- SHOCK: ML-STD-202, METHOD 213B COND. B
- VIBRATION: ML-STD-202, METHOD 204D COND. B
- ALTITUDE: ML-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ML-STD-202, METHOD 107D COND. A

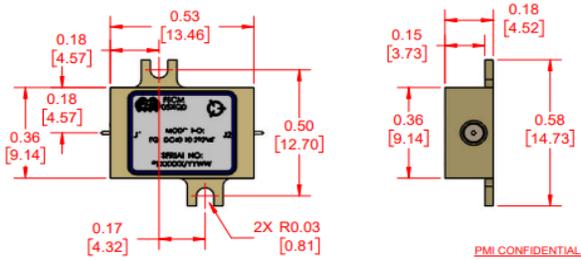
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

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NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



ZONE	REV.	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	7/1/2002	
B1		ECN # 22-0154	11/08/2002	
C1		ECN # 25-0015	1/22/05	

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNER	S AZHAR	7/1/2002	OUTLINE	
UNLESS OTHERWISE SPECIFIED			EQL-DC40-10-292MF	
CONSTRUCTION AND FINISH			SIZE	FACE NO.
TOLERANCES UNLESS OTHERWISE SPECIFIED			B	05XQ0
ASSEMBLY			REV. NO.	27044560
DATE	2/2/05			
BY	JAY S. BAY			
			SCALE	4:1
				SHEET 1 OF 1

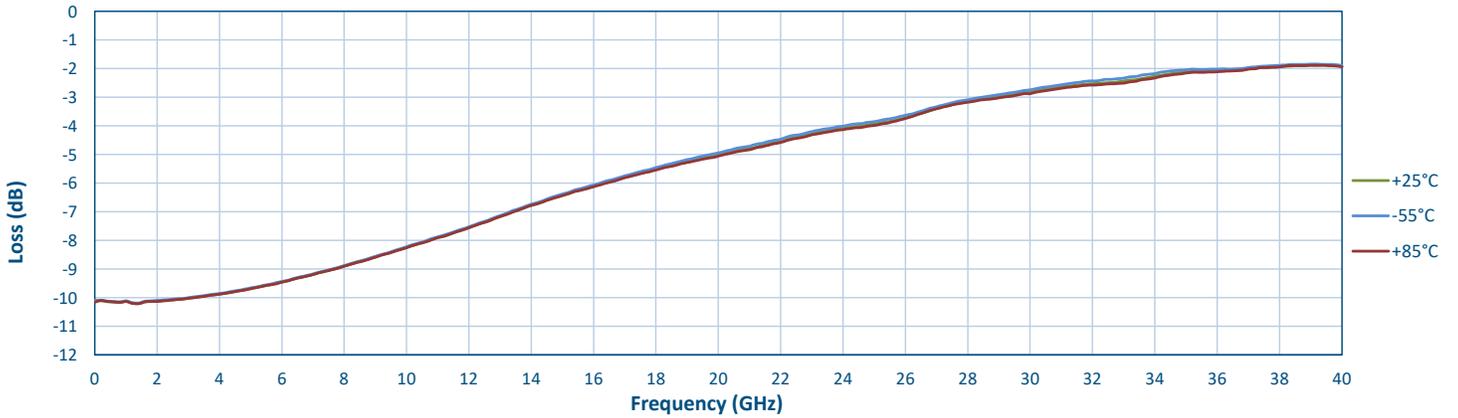
Typical Characteristics ON EQL-DC40-10-292MF

Technical Specifications

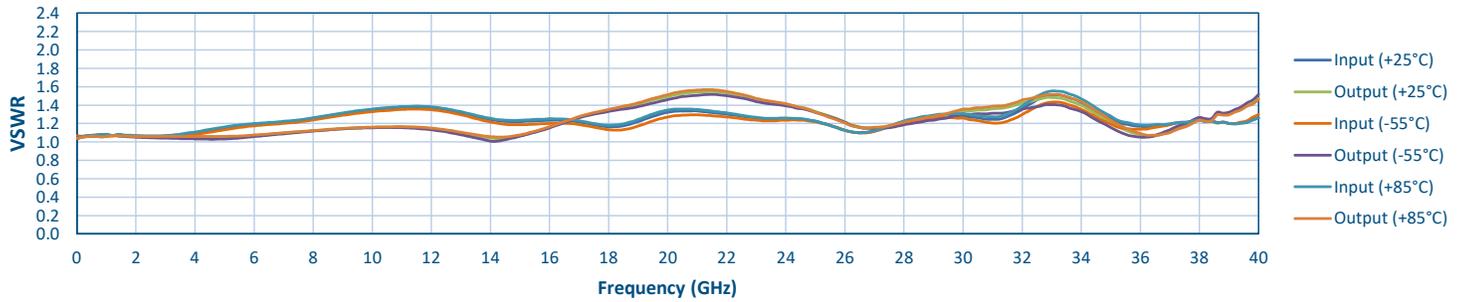
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-55°C	+85°C	
1	Frequency Range:	10MHz to 40GHz	10MHz to 40GHz	10MHz to 40GHz	10MHz to 40GHz	
2	Insertion Loss:	12.0 dB @ 10MHz - 2GHz Max.	10.21 dB See Graph	10.19 dB See Graph	10.21 dB See Graph	
		2.5 dB @ 38-40GHz Max.	1.93 dB See Graph	1.9 dB See Graph	1.94 dB See Graph	
3	VSWR (in/out):	1.6:1 Typ. 1.8:1 Max.	1.51 :1 Input See Graph	1.43 :1 Input See Graph	1.55 :1 Input See Graph	
			1.55 :1 Output See Graph	1.52 :1 Output See Graph	1.57 :1 Output See Graph	
4	Slope:	0.25 ± 0.06 dB/GHz Max.	0.24 dB/GHz See Graph	0.24 dB/GHz See Graph	0.24 dB/GHz See Graph	
5	Input Power:	+30 dBm (1W) Max.	Pass +30dBm See Graph	Pass +30dBm See Graph	Pass +30dBm See Graph	
6	Amplitude Accuracy:	±2dB Max. (Compared to Best Fit Straight Line)	0.54 dB Max.	0.56 dB Max.	0.52 dB Max.	
			-1.24 dB Min.	-1.3 dB Min.	-1.22 dB Min.	

Typical Characteristics ON EQL-DC40-10-292MF

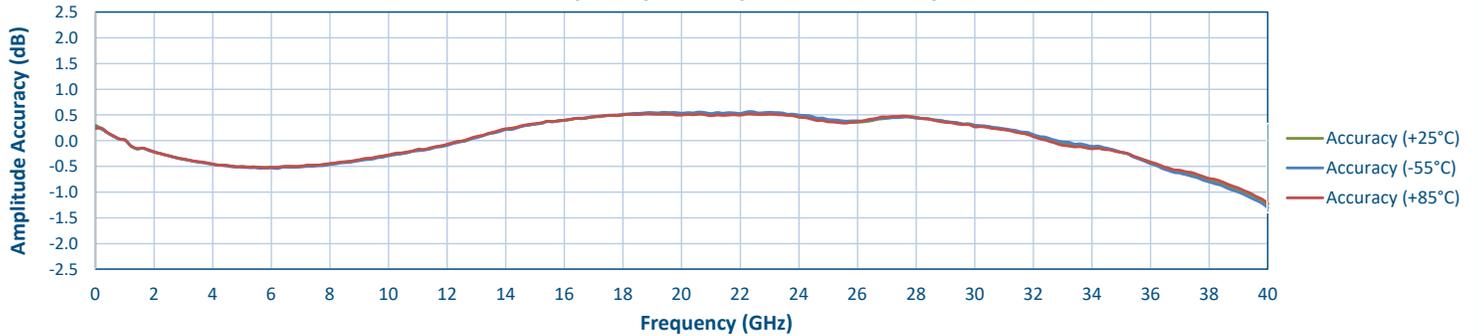
Insertion Loss



VSWR



Frequency Vs Amplitude Accuracy



Input Power Vs Output Power

