

Typical Characteristics ON EQL-DC40-20-292FF

EQL-DC40-20-292FF IS A DC TO 40 GHz PASSIVE EQUALIZER WITH A 20 dB TYP. LOSS AT 10MHz WITH A INSERTION LOSS OF 3.0 dB TYP. AT 40 GHz. MEASUREMENT TO BE EQUIVALENT



November 21, 2022

Designed By:

Engineering PMI

Tested and Reported By:

Alfredo Lopez

Typical Characteristics ON EQL-DC40-20-292FF

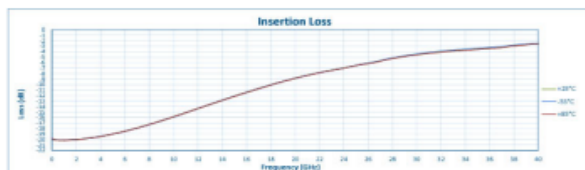
Product Feature

DESCRIPTION:

EQL-DC40-20-292FF IS A DC TO 40 GHz PASSIVE EQUALIZER WITH A 21 dB MAX LOSS AT 10MHz WITH A INSERTION LOSS OF 3.5 dB MAX. AT 40 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.

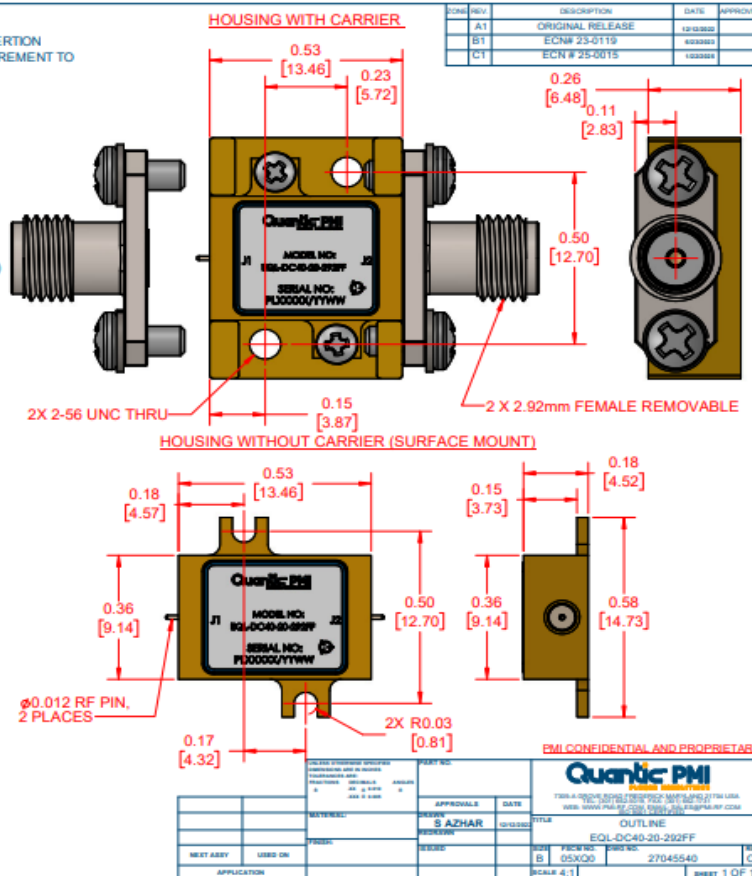
SPECIFICATIONS:

- FREQUENCY RANGE: 10 MHz TO 40 GHz
- INSERTION LOSS: 20.0 dB TYP , 21.0 dB MAX @ 10MHz - 2GHz
3.5 dB @ 38 - 40GHz MAX
- INPUT POWER: +30 dBm MAX
- VSWR: 1.6:1 TYP
1.8:1 MAX
- SLOPE: 0.5 ± 0.08 dB/GHz MAX
- AMPLITUDE ACCURACY: ± 3.0 dB MAX. (COMPARED TO BEST FIT STRAIGHT LINE)
- WEIGHT: 10g MAX
- CONNECTORS: 2.92mm FEMALE REMOVABLE
- 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



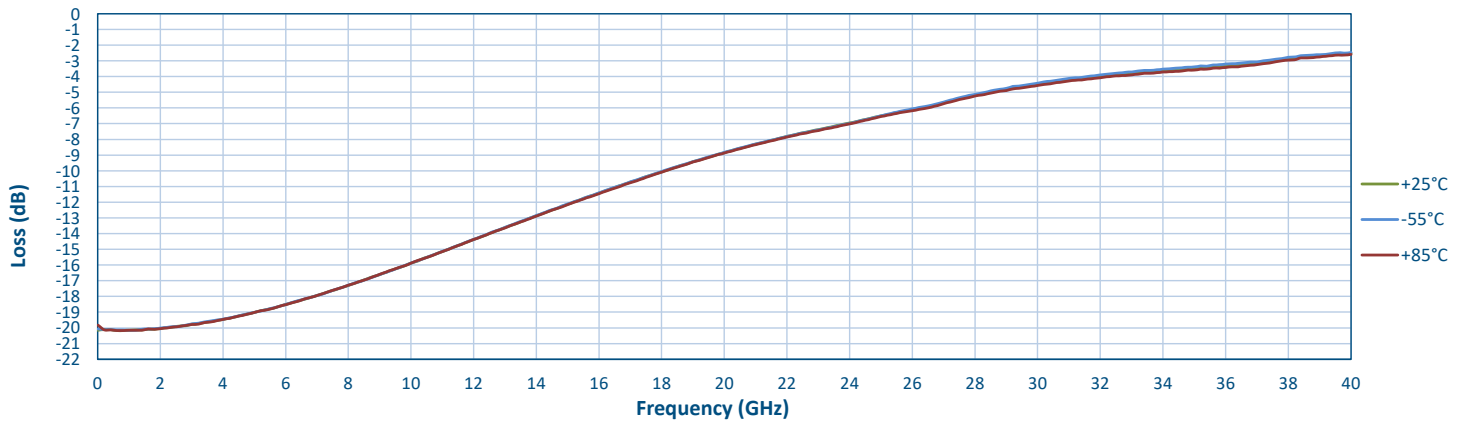
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Technical Specifications

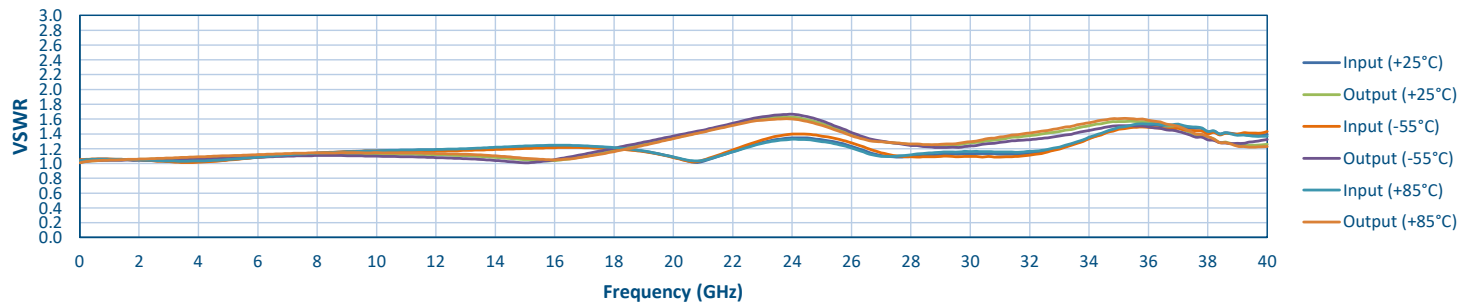
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-55°C	+85°C	
1	Frequency Range:	10MHz to 40GHz	10MHz to 40GHz	10MHz to 40GHz	10MHz to 40GHz	
2	Insertion Loss:	20.0 dB Typ, 21.0 dB Max. @ 10MHz - 2 GHz Typ.	20.18 dB See Graph	20.16 dB See Graph	20.16 dB See Graph	
		3.5 dB @ 38- 40GHz Max.	2.88 dB See Graph	2.77 dB See Graph	2.95 dB See Graph	
3	VSWR (in/out):	1.6:1 Typ. 1.8:1 Max.	1.52 :1 Input See Graph	1.5 :1 Input See Graph	1.54 :1 Input See Graph	
			1.63 :1 Output See Graph	1.66 :1 Output See Graph	1.61 :1 Output See Graph	
4	Slope:	0.50 ± 0.06 dB/GHz Typ.	0.51 dB/GHz See Graph	0.51 dB/GHz See Graph	0.51 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:	±3 dB Max. (Compared to Best Fit Straingt Line)	1.42 dB Max.	1.4 dB Max.	1.43 dB Max.	
			-2.46 dB Min.	-2.49 dB Min.	-2.42 dB Min.	

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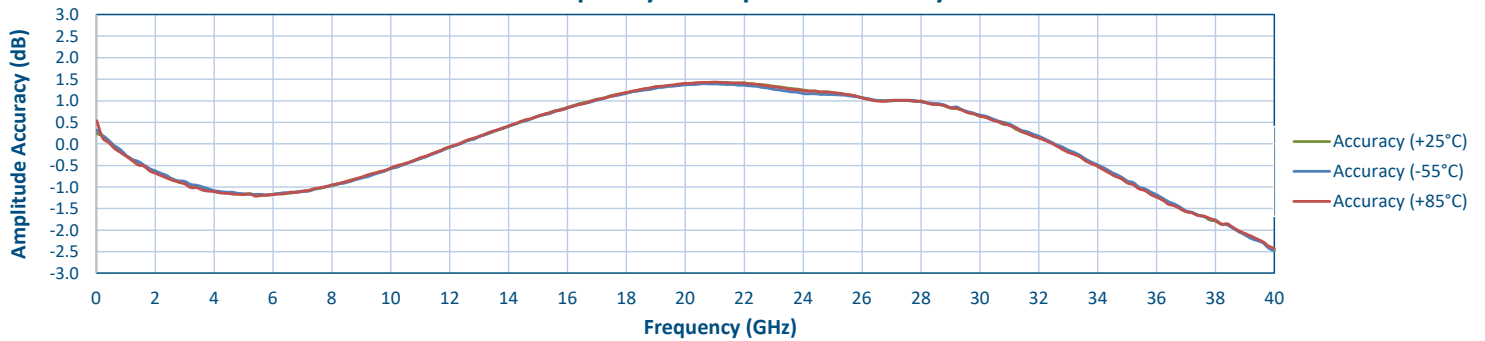
Insertion Loss



VSWR



Frequency Vs Amplitude Accuracy



Input Power Vs Output Power

