

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:

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.

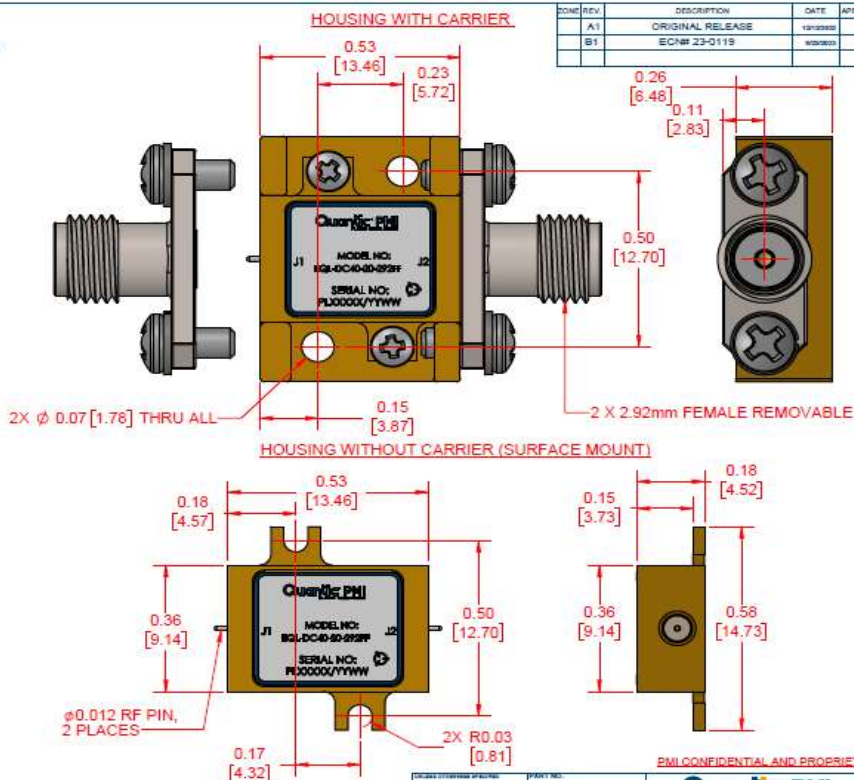
SPECIFICATIONS:

- **FREQUENCY RANGE:** 10 MHz TO 40 GHz
- **INSERTION LOSS:** 20.0 dB TYP. 21.0 dB MAX @ 10MHz - 20Hz
3.5 dB @ 38 - 40GHz MAX
- **INPUT POWER:** +30 dBm MAX
- **VSWR:** 1.5:1 TYP
1.8:1 MAX
- **SLOPE:** 0.5 + 0.05 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 1038 COND. B |
| * SHOCK:..... | MIL-STD-202, METHOD 2148 COND. B |
| * VIBRATION:..... | MIL-STD-202, METHOD 2040 COND. B |
| * ALTITUDE:..... | MIL-STD-202, METHOD 1050 COND. B |
| * TEMPERATURE CYCLE:..... | MIL-STD-202, METHOD 1070 COND. A |



PML CONFIDENTIAL AND PROPRIETARY

(CHECK TYPE OF BIDDING METHOD) BIDDING METHOD: ☐ OPEN ☒ SEALED DATE: 20-06-2024 TIME: 10:00 AM		(PART NO.) PART NO.: 1		 Quantec PMI TRADING & CONSULTANCY 703-A, SRIWISALA ROAD, PRESTIGE PARK, KOTA DAMAI, WILAYATUL ISLAM, KUALA LUMPUR TEL: 03-2619 8888 FAX: 03-2619 8889 WWW.QUANTEC.PM.COM	
MATERIAL: 1. S&ZHAR 2. RESINUM		APPROVED: APPROVED BY: S&ZHAR APPROVED DATE: 20-06-2024		DATE: 20-06-2024 TITLE: OUTLINE EOL-04-04-20-252F	
NEXT ASBY: USED ON:		DESIGNED: DESIGNED BY: S&ZHAR DESIGNED DATE: 20-06-2024		DWG NO: 27045540 DWG NO: 27045540	
APPLICATION:		SCALE: 1:1		SHEET 1 OF 3	

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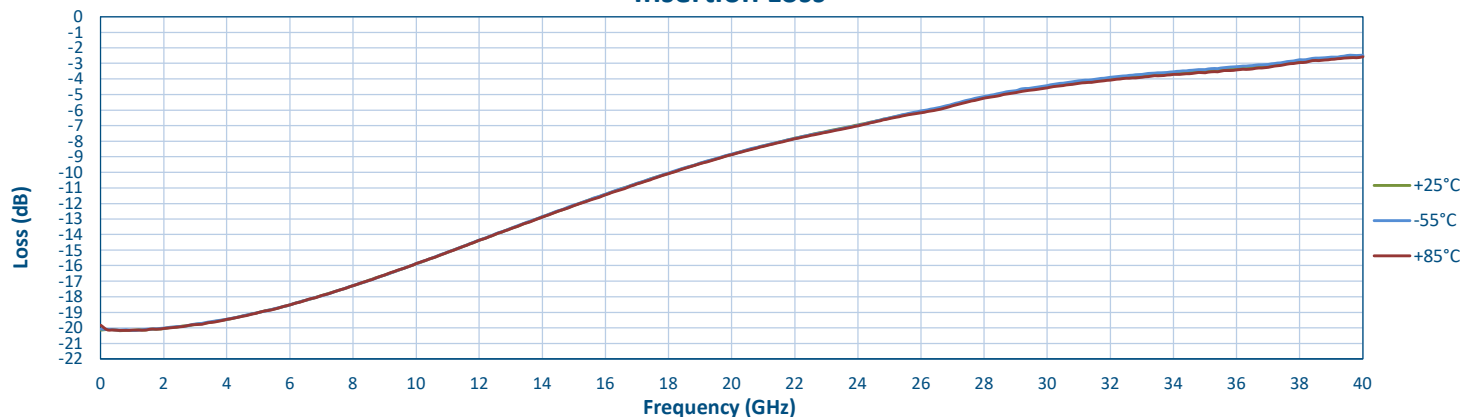
Technical Specifications

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 Straight 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.	

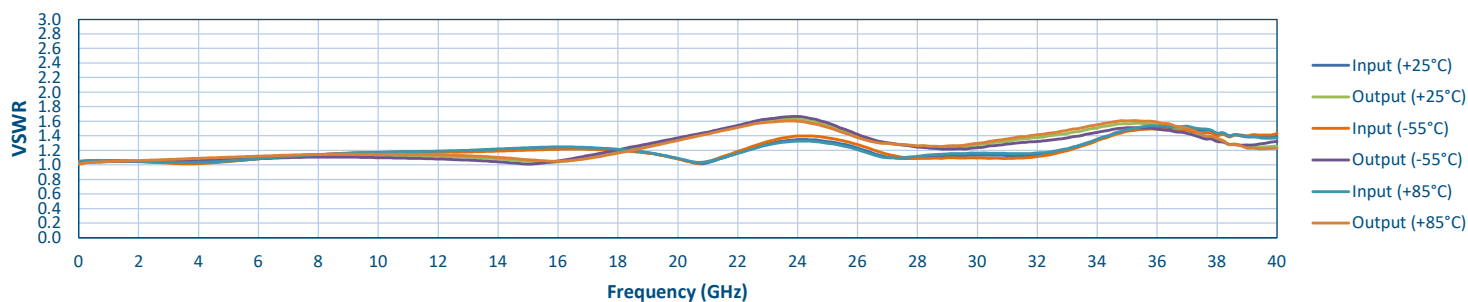
7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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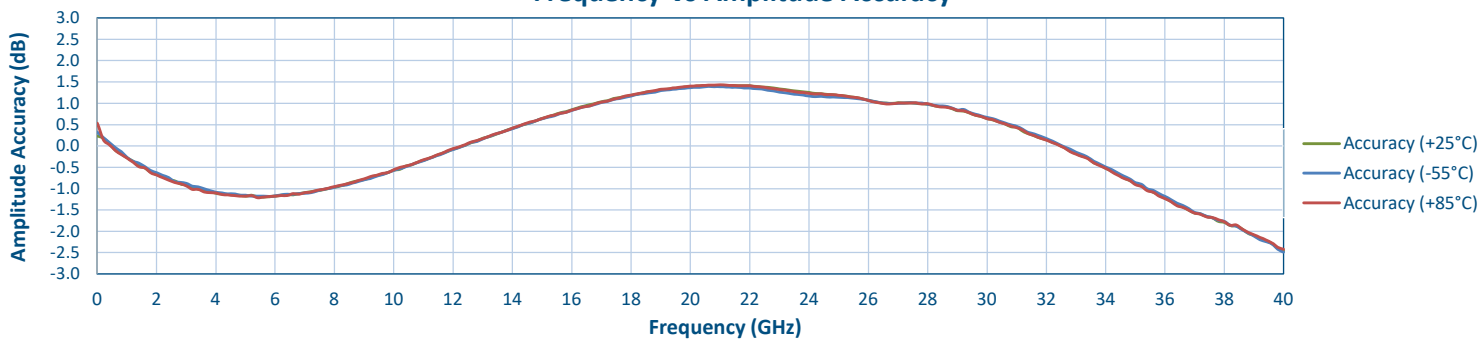
Insertion Loss



VSWR



Frequency Vs Amplitude Accuracy



Input Power Vs Output Power

