

## Typical Characteristics ON EQL-DC50-13-24FF

EQL-DC50-13-24FF IS A DC TO 50 GHz PASSIVE EQUALIZER WITH A 13 dB MAX. LOSS AT 10MHz WITH A INSERTION LOSS OF 3.0 dB MAX. AT 50 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.



**December 13, 2022**

**Designed By:**

**Engineering PMI**

**Technical Drawings**

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## Product Feature

**DESCRIPTION:**

EQL-DC50-13-24FF IS A DC TO 50 GHz PASSIVE EQUALIZER WITH A 13 dB MAX LOSS AT 10MHz WITH AN INSERTION LOSS OF 3.0 dB MAX AT 50 GHz. THE EQUALIZER DESIGN ALLOWS BOTH FORWARD AND REVERSE MEASUREMENT TO BE EQUIVALENT.

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 10 MHz TO 50 GHz
- INSERTION LOSS:..... 13.0 dB @ 10MHz - 2GHz MAX  
3.0 dB @ 45 - 50GHz MAX
- INPUT POWER:..... +28 dBm MAX
- VSWR:..... 1.8:1 TYP  
1.8:1 MAX
- SLOPE:..... 0.25 ± 0.06 dB/GHz MAX
- AMPLITUDE ACCURACY:..... ± 2 dB MAX (COMPARED TO BEST FIT STRAIGHT LINE)
- WEIGHT:..... 10g MAX
- CONNECTORS:..... 2.4mm FEMALE REMOVABLE
- FINISH:..... GOLD PLATED

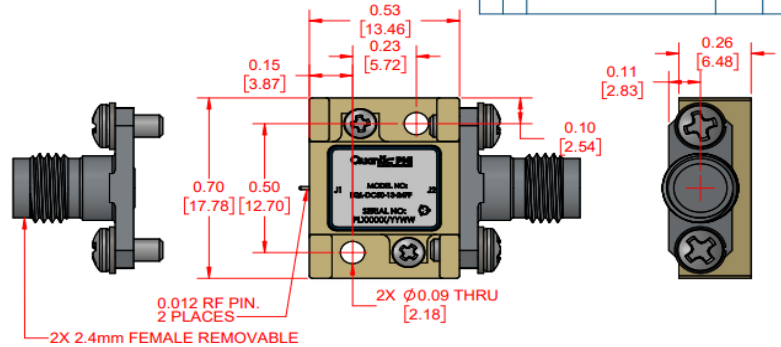


**ENVIRONMENTAL RATINGS:**

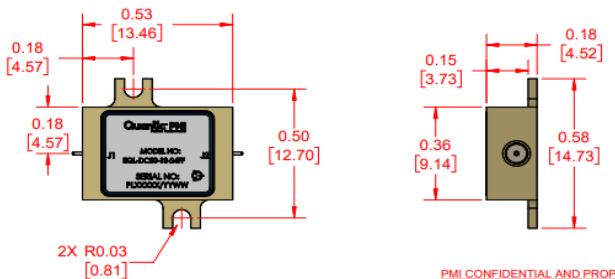
- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202,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



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/20/2022	

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN <b>S AZHAR</b>			OUTLINE	
REVISION			EQL-DC50-13-24FF	
ISSUED			SIZE	REV.
			B	05XQ0
			FACTORY NO.	27044560
			SCALE	4:1
			SHEET 1 OF 1	

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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 50GHz	10MHz to 50GHz	10MHz to 50GHz	10MHz to 50GHz	
2	Insertion Loss:	13.0 dB @ 10MHz - 2GHz Max.	12.16 dB See Graph	12.21 dB See Graph	12.17 dB See Graph	
		3.0 dB @ 45-50GHz Max.	2.77 dB See Graph	2.73 dB See Graph	2.78 dB See Graph	
3	VSWR (in/out):	1.6:1 Typ. 1.8:1 Max.	1.69 :1 Input See Graph	1.75 :1 Input See Graph	1.66 :1 Input See Graph	
			1.57 :1 Output See Graph	1.61 :1 Output See Graph	1.54 :1 Output See Graph	
4	Slope:	0.25 ± 0.06 dB/GHz Max.	0.22 dB/GHz See Graph	0.22 dB/GHz See Graph	0.22 dB/GHz See Graph	
5	Input Power:	+28 dBm Max.	Pass +28dBm See Graph	Pass +28dBm See Graph	Pass +28dBm See Graph	
6	Amplitude Accuracy:	±2.0 dB Max. (Compared to Best Fit Straight Line)	0.63 dB Max.	0.66 dB Max.	0.62 dB Max.	
			-1.58 dB Min.	-1.58 dB Min.	-1.56 dB Min.	

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