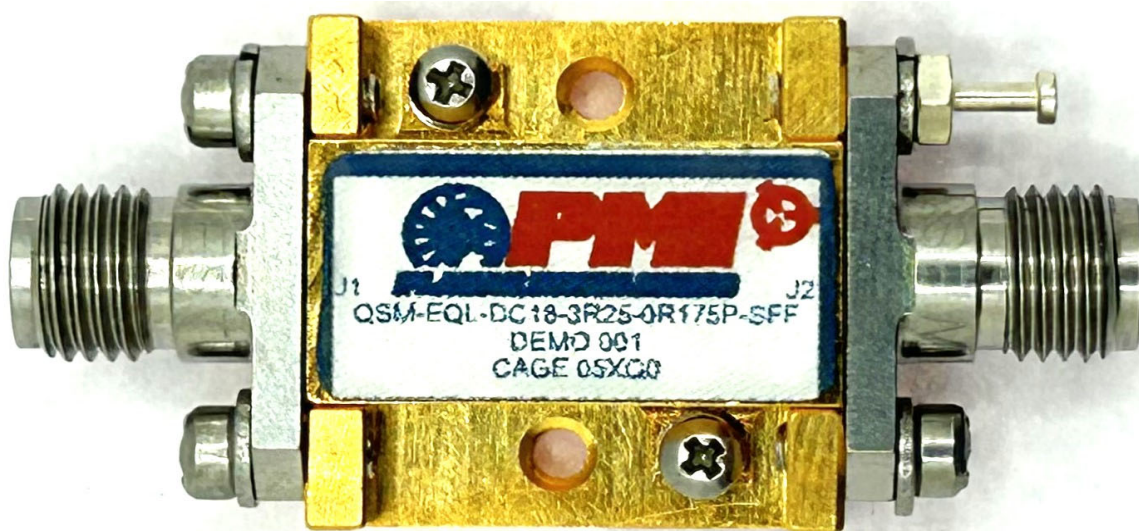


PMI MODEL NUMBER QSM-EQL-DC18-3R25-0R175P-SFF IS A DC TO 18 GHz EQUALIZER. THIS EQUALIZER IS SUPPLIED IN OUR STANDARD QSM HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY  
R. SIRK

DATE  
October 20, 2025

# Typical Characteristics ON QSM-EQL-DC18-3R25-0R175P-SFF

## Outline Drawing

**DESCRIPTION:**

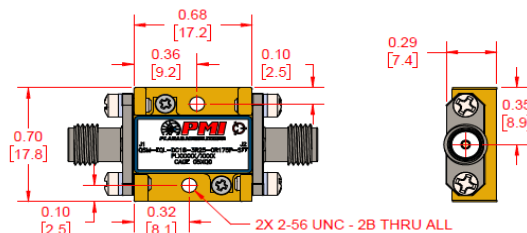
PMI MODEL NUMBER QSM-EQL-DC18-3R25-0R175P-SFF IS A DC TO 18 GHz EQUALIZER. THIS EQUALIZER IS SUPPLIED IN OUR STANDARD PEAFS3 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/21/2020	

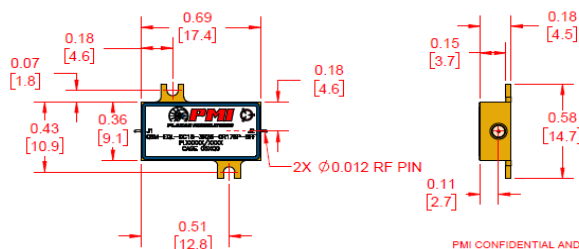
**SPECIFICATIONS:**

- FREQUENCY RANGE:..... DC TO 18 GHz
- INSERTION LOSS @ 18 GHz:..... 1 dB MAX  
0.75 dB TYP
- NOMINAL SLOPE:..... 0.18 dB/GHz NOM
- SLOPE LINEARITY:..... ±0.75 dB MAX  
(FROM BEST FIT STRAIGHT LINE)
- VSWR:..... 2.0:1 MAX
- RF INPUT POWER:..... +30 dBm MAX
- CONNECTORS:..... SMA FEMALE CONNECTORS
- FINISH:..... GOLD PLATED

**HOUSING WITH CARRIER**



**HOUSING WITHOUT CARRIER (SURFACE MOUNT)**



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103 COND. B
- SHOCK:..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	R. SIRK	10/21/2020	OUTLINE	
ISSUED			SIZE	QSM-EQL-DC18-3R25-0R175P-SFF
			FCM NO.	05XGQ
			DWG NO.	27053620
			SCALE	2:1
				SHEET 1 OF 1



**Typical Characteristics**  
**ON**  
**QSM-EQL-DC18-3R25-0R175P-SFF**

**Technical Specifications**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-40°C	+25°C	+85°C
1	Frequency Range:	DC TO 18 GHz	DC TO 18 GHz		
2	Insertion Loss @ 18 GHz	1 dB Max 0.75 dB Typ	0.53 dB See Graph	0.61 dB See Graph	0.72 dB See Graph
3	Nominal Slope:	0.18 dB/GHz Nom	0.18 dB/GHz	0.17 dB/GHz	0.16 dB/GHz
4	Slope Linearity: (from best fit straight line)	±0.5 dB Max	0.25 dB Max -0.47 dB Min See Graph	0.22 dB Max -0.39 dB Min See Graph	0.22 dB Max -0.33 dB Min See Graph
5	VSWR (J1):	2 :1 Max	1.89 :1 See Graph	1.89 :1 See Graph	1.89 See Graph
6	VSWR (J2):	2 :1 Max	1.88 :1 See Graph	1.88 :1 See Graph	1.88 :1 See Graph
7	RF Input Power:	+30 dBm Max	+30 dBm Max		

