

TYPICAL CHARACTERISTICS ON HP-118-CD-SFF

QUANTIC PMI MODEL HP-118-CD-SFF IS A BROADBAND HIGH PASS FILTER HAVING A PASSBAND OF 1 TO 18 GHz. CUT-OFF FREQUENCY IS 1 GHz WITH A MAXIMUM PASSBAND INSERTION LOSS OF 2 dB FROM 1 TO 18 GHz. THIS MODEL PROVIDES 60 dB MINIMUM REJECTION AT 0.5 GHz. THE PACKAGE IS 1.08" X 0.71" X 0.26" AND HAS FEMALE SMA REMOVABLE CONNECTORS. CAN BE USED IN SURFACE MOUNT OR CONNECTORIZED APPLICATIONS.



May 29, 2025

Designed By:

Engineering PMI

Tested and Reported By:

Alfredo Lopez

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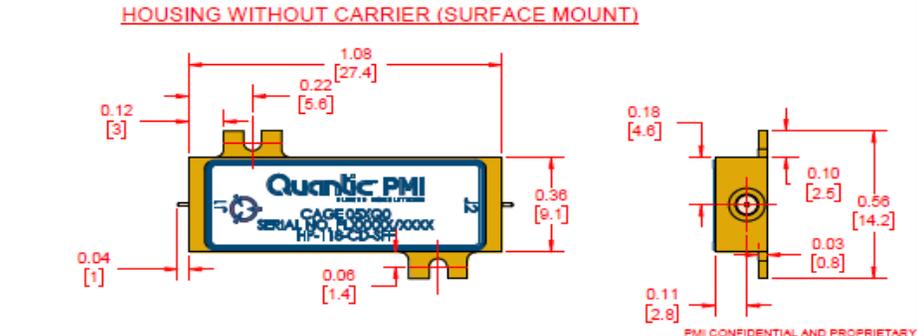
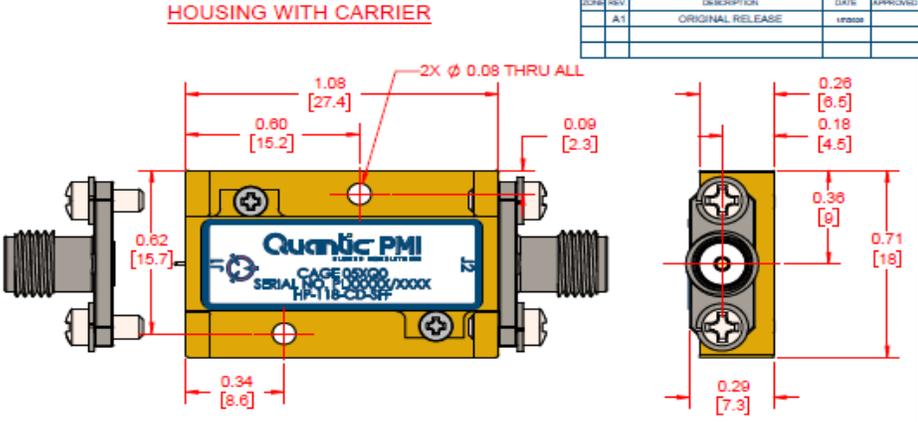
Outline Drawing

CDWG	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE		

DESCRIPTION:
QUANTIC PMI MODEL HP-118-CD-SFF IS A BROADBAND HIGH PASS FILTER HAVING A PASSBAND OF 1 TO 18 GHz. CUT-OFF FREQUENCY IS 1 GHz WITH A MAXIMUM PASSBAND INSERTION LOSS OF 2 dB FROM 1 TO 18 GHz. THIS MODEL PROVIDES 60 dB MINIMUM REJECTION AT 0.5 GHz. THE PACKAGE IS 1.08" X 0.71" X 0.26" AND HAS FEMALE SMA REMOVABLE CONNECTORS.

- SPECIFICATIONS:**
- FREQUENCY RANGE:..... 1 TO 18 GHz
 - VSWR:..... 2.0:1 MAX
 - INSERTION LOSS:..... 4 dB MAX (AT 1 GHz)
2 dB MAX (2 TO 18 GHz)
 - REJECTION AT 0.5 GHz:..... 60 dB MIN
 - OPERATING INPUT POWER:..... 10 WATTS CW
 - CONNECTORS:..... SMA FEMALE (REMOVABLE)
 - SIZE:..... 1.08" (L) X 0.71" (W) X 0.26" (H)
 - WEIGHT:..... 1 OZ TYPICAL

- 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

PMI CONFIDENTIAL AND PROPRIETARY

Quantic PMI PLANAR MONOLITHICS	
APPROVALS:	DATE:
DESIGN: SNL	UNLESS:
REVISION:	
TITLE: OUTLINE	
PART: HP-118-CD-SFF	
REV: B	REV NO: 27049500
SCALE: 3:1	REV: A1
SHEET 1 OF 1	

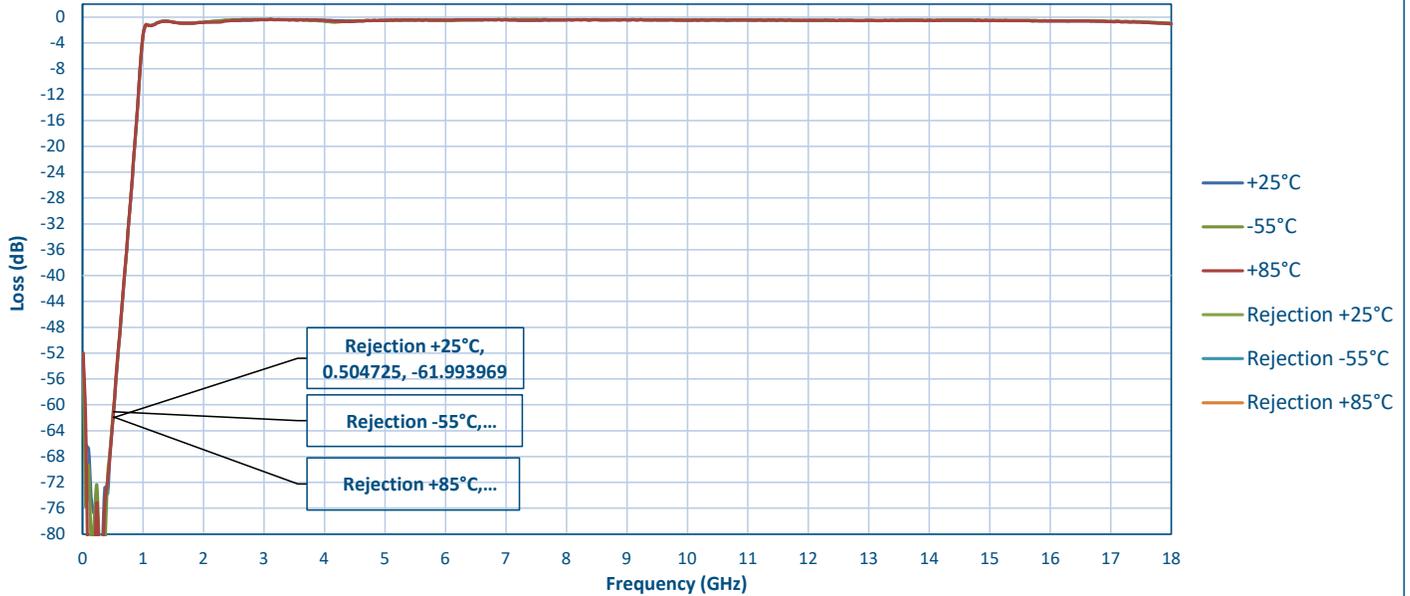
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Technical specifications

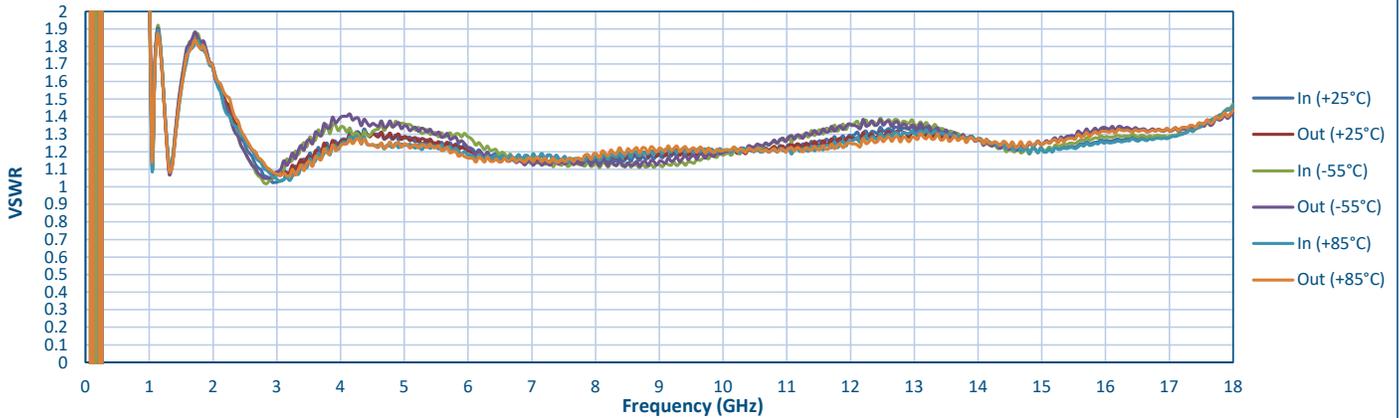
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	1 to 18 GHz	1.0 to 18 GHz		
2	Insertion Loss: Passband	4.0 dB Max. (at 1 GHz) 2.0 dB Max. (2 to 18 GHz)	2.78 dB	2.71 dB	2.82 dB
			1.04 dB	0.95 dB	1.05 dB
			See Graph	See Graph	See Graph
3	VSWR:	2.0:1 Max.	1.9 :1 See Graph	1.92 :1 See Graph	1.89 :1 See Graph
4	Rejection @ 0.5 GHz	60 dB Min.	61.99 dB See Graph	61.04 dB See Graph	61.84 dB See Graph
5	Operating Input Power	10 Watts CW Max.	Pass 50 Watts CW See Graph	Pass 50 Watts CW See Graph	Pass 50 Watts CW See Graph

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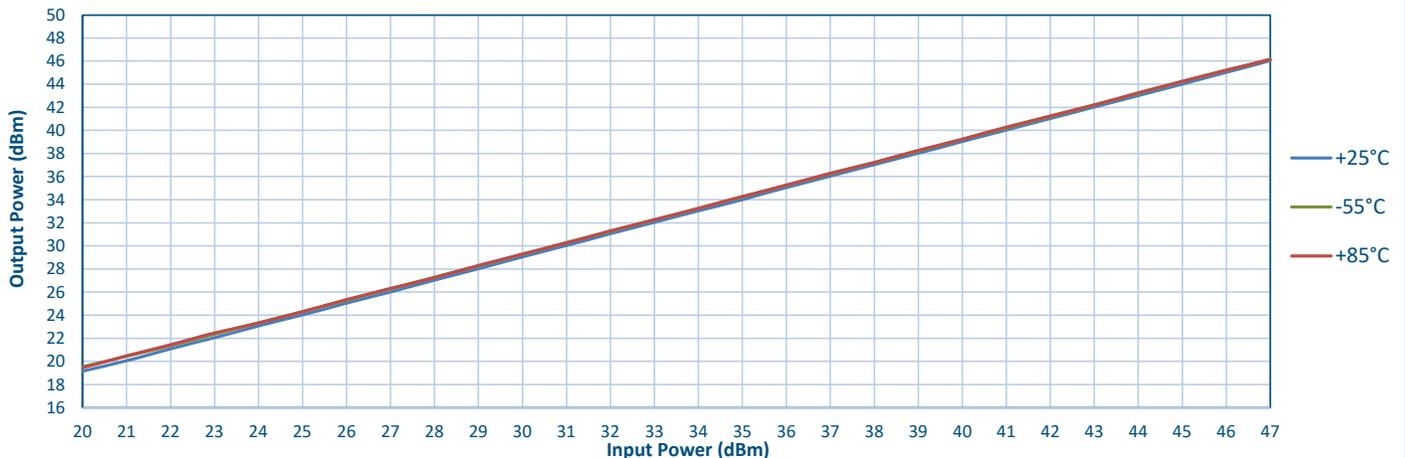
Insertion Loss Passband Vs Frequency & Temperatures



VSWR Passband Vs Frequency & Temperatures



High Power Test & Temperatures (18 GHz)



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