

TYPICAL CHARACTERISTICS ON HP-120-CD-SFM

QUANTIC PMI MODEL HP-120-CD-SFM IS A BROADBAND HIGH PASS FILTER HAVING A PASSBAND OF 1 TO 20 GHz. THE PACKAGE IS 1.08" X 0.71" X 0.26" AND HAS SMA (F/M) REMOVABLE CONNECTORS. CAN BE USED IN SURFACE MOUNT OR CONNECTORIZED APPLICATIONS.



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Designed By:

Engineering PMI

Tested and Reported By:

Alfredo Lopez

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Outline Drawing

DESCRIPTION:

QUANTIC PMI MODEL HP-120-CD-SFM IS A BROADBAND HIGH PASS FILTER HAVING A PASSBAND OF 1 TO 20 GHz. THE PACKAGE IS 1.08" X 0.71" X 0.26" AND HAS SMA (F/M) REMOVABLE CONNECTORS. CAN BE USED IN SURFACE MOUNT OR CONNECTORIZED APPLICATIONS.

SPECIFICATIONS:

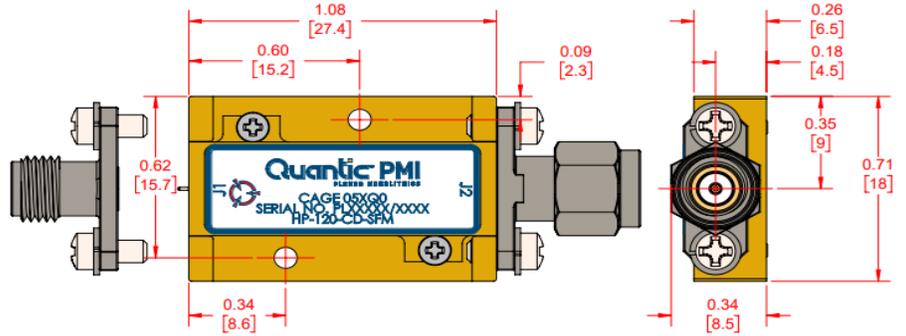
- FREQUENCY RANGE:..... 1 TO 20 GHz
- VSWR:..... 2.0:1 MAX
- INSERTION LOSS:..... 4 dB MAX (AT 1 GHz)
2 dB MAX (2 TO 18 GHz)
3 dB MAX (18 TO 20 GHz)
- REJECTION AT 0.5 GHz:..... 60 dB MIN
- OPERATING INPUT POWER:..... 10 WATTS CW
- CONNECTORS:..... SMA FEMALE INPUT (REMOVABLE)
SMA MALE OUTPUT (REMOVABLE)
- SIZE:..... 1.08" (L) X 0.71" (W) X 0.26" (H)
- WEIGHT:..... 1 OZ TYPICAL

ENVIRONMENTAL RATINGS:

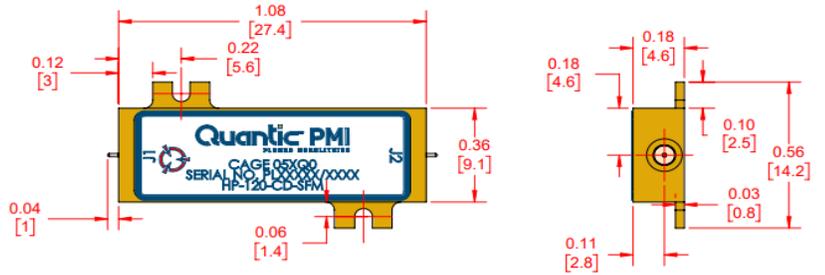
- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/18/2014	

PMI CONFIDENTIAL AND PROPRIETARY

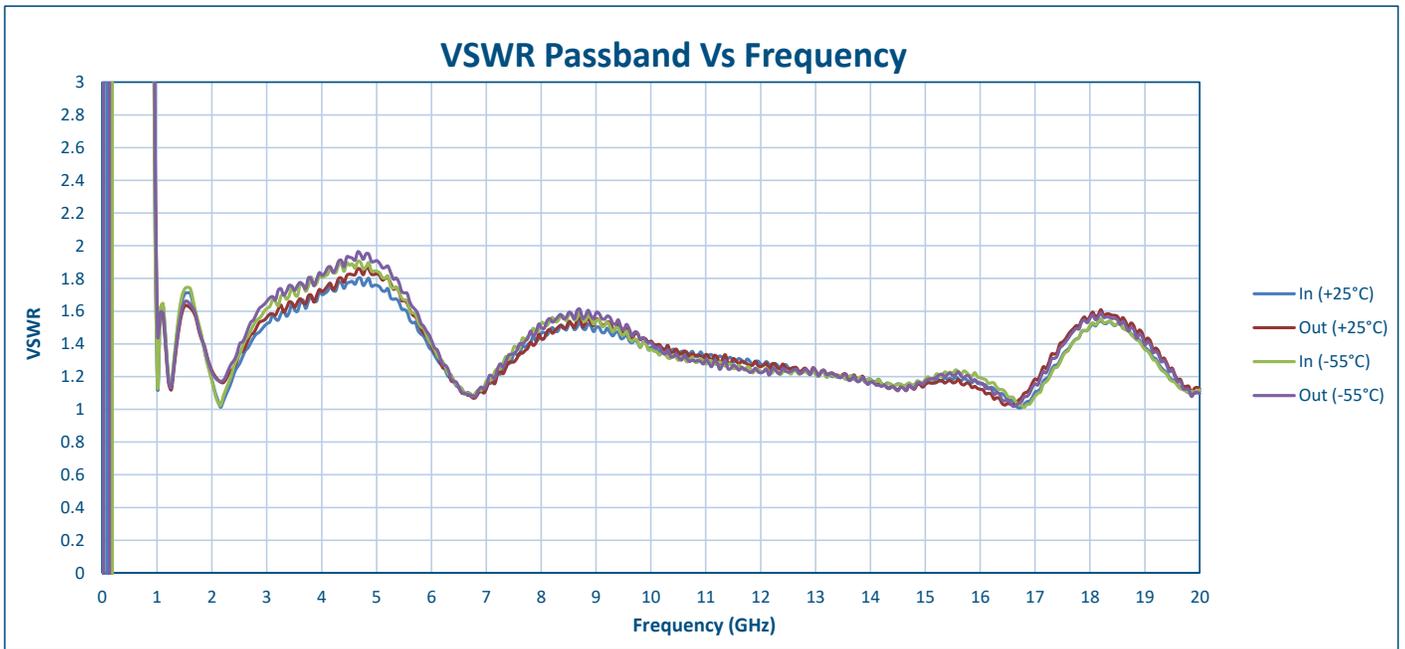
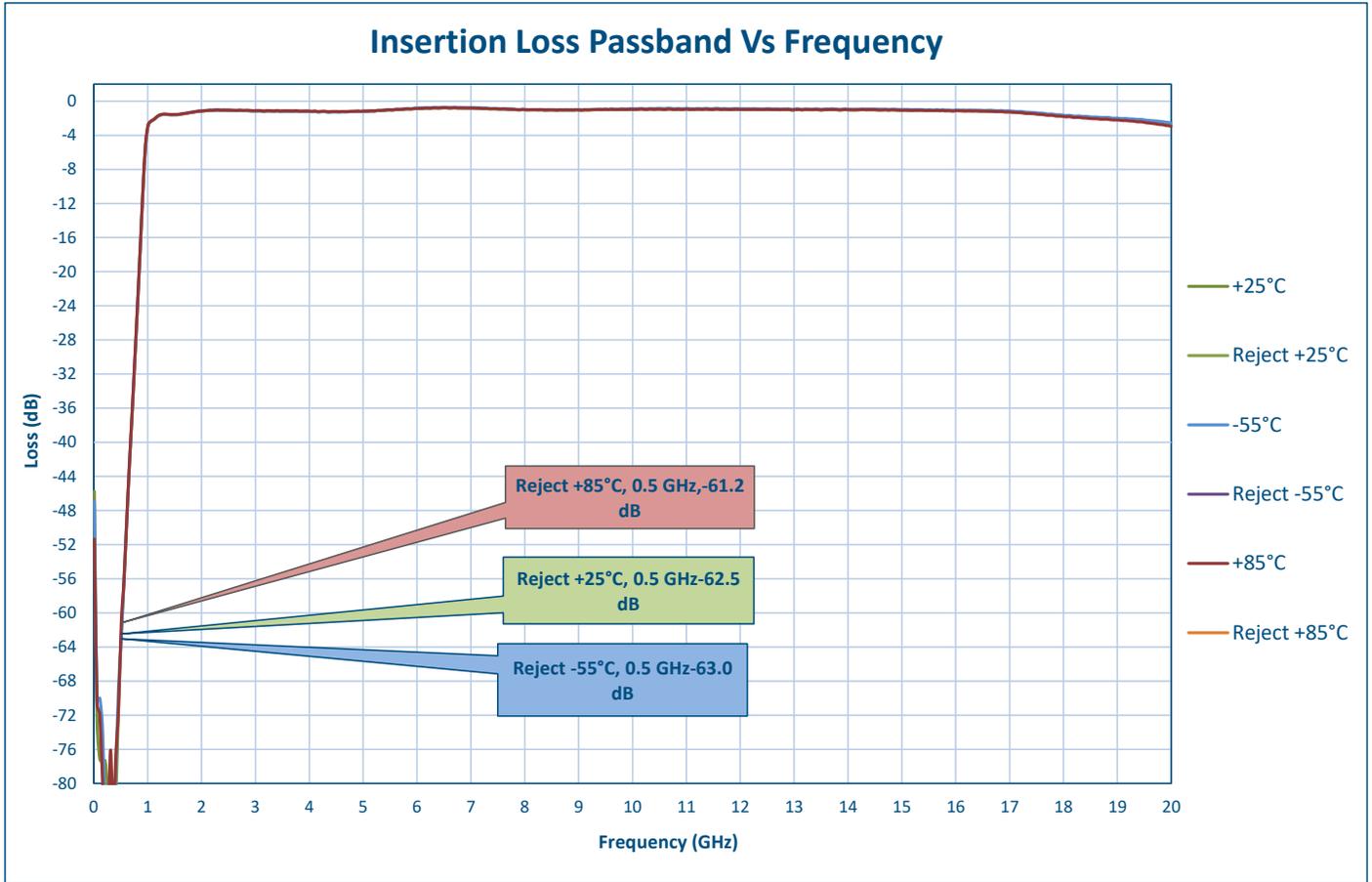
APPROVALS		DATE		
DRAWN	SNL	12/18/2014	7309-A GROVE ROAD FREDERICK, MD 21704 USA WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
DESIGNED			TITLE HP-120-CD-SFM	
ISSUED			SIZE B	FSCM NO. 05XQ00
			DWS NO. 27050400	REV A1
			SCALE 3:1	SHEET 1 OF 1

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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 20 GHz	1 to 20 GHz	1 to 20 GHz	1 to 20 GHz
2	Insertion Loss: Passband	4.0 dB Max. (at 1 GHz) 2.0 dB Max. (2 to 18 GHz) 3.0 dB Max. (18 to 20 GHz)	2.81 dB	2.83 dB	2.78 dB
			1.75 dB	1.65 dB	1.79 dB
			2.79 dB	2.58 dB	2.96 dB
			See Graph	See Graph	See Graph
3	VSWR:	2.0:1 Max.	1.86 :1 See Graph	1.96 :1 See Graph	1.82 :1 See Graph
4	Rejection @ 0.5 GHz	60 dB Min.	62.46 dB See Graph	63.04 dB See Graph	61.17 dB See Graph
5	Operating Input Power	10 Watts CW Max.	Pass 10 Watts CW See Graph	Pass 10 Watts CW See Graph	Pass 10 Watts CW See Graph

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