



**TYPICAL CHARACTERISTICS
ON
DP-5700M-6500M-CD-SFF**

**PMI MODEL: DP-5700M-6500M-CD-SFF IS A DIPLEXER WITH A LOW PASSBAND
OF 5700 TO 6500 MHz AND HIGH PASS BAND OF 13750 TO 14500 MHz.**



January 6, 2016

DESIGNED BY: PMI ENGINEERING

TESTED & REPORTED BY: JERRY N.



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OUTLINE DRAWING

REVISIONS				
REV.	DATE	DESCRIPTION	BY	APP'D
1		ORIGINAL RELEASE		
A1		ECN # 16-0002		

DESCRIPTION

PMI MODEL: DP-5700M-6500M-CD-SFF IS A DIPLEXER WITH A LOW PASSBAND OF 5700 TO 6500 MHz AND HIGH PASS BAND OF 13750 TO 14500 MHz.

MECHANICAL OUTLINE

SPECIFICATIONS

- LOW PASSBAND: 5700 TO 6500 MHz MIN
- HIGH PASSBAND: 13750 TO 14500 MHz MIN
- PASSBAND INSERTION LOSS: ±1 dB @ LOW PASSBAND
±2 dB @ HIGH PASSBAND
- VSWR: 2.0:1 @ PASSBANDS
- CHANNEL-TO-CHANNEL ISOLATION: ≥70 dB
- POWER HANDLING: 20 W
- CONNECTORS: SMA FEMALE
- FINISH: PAINT EPOXY BLUE
- SIZE: 2.50" x 1.00" x 0.50"

ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 109C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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ISO 9001 CERTIFIED

APPROVALS		DATE		PRODUCT FEATURE	
DESIGN	DATE	REV.	DATE	DESCRIPTION	REV.
ES	10/20/16	A	05XQ0	27028361	A1
MATERIAL		MATERIAL		MATERIAL	
N-S		N-S		N-S	

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX ±0.025
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

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



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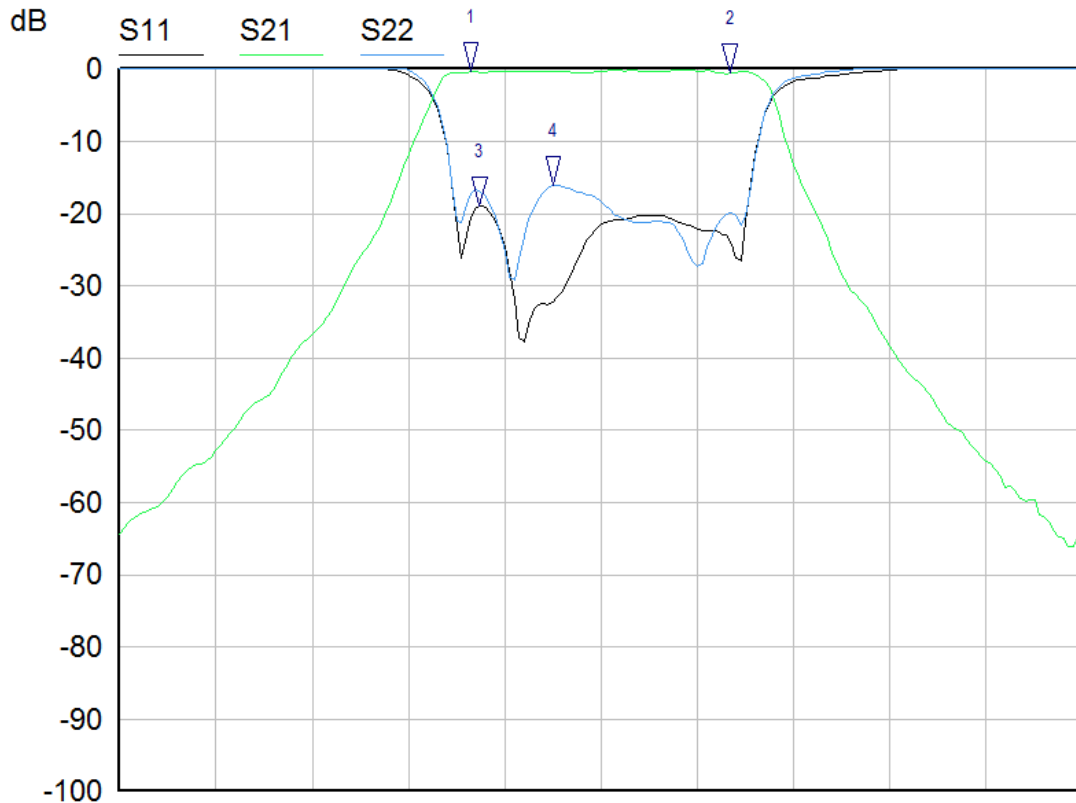
TEST DATA SUMMARY

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Low Passband (BPF1)	5.7 GHz TO 6.5 GHz MIN	5.7 GHz TO 6.5 GHz (see plot)	
2	High Passband (BPF2)	13.75 GHz TO 14.5 GHz MIN	13.75 GHz TO 14.5 GHz (see plot)	
3	Insertion Loss (Low Passband)	≤ 1 dB	0.57 dB (see plot)	
4	Insertion Loss (High Passband)	≤ 2 dB	1.32 dB (see plot)	
5	VSWR(Passband)	2.0 : 1 TYP	1.37 : 1 (see plot)	
6	CH to CH Isolation	≥ 70 dB	83.19 dB (see plot)	



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Low Passband (BPF1)



Start: 4.6000 GHz

Stop: 7.6000 GHz

12/28/2015 11:51:51 AM

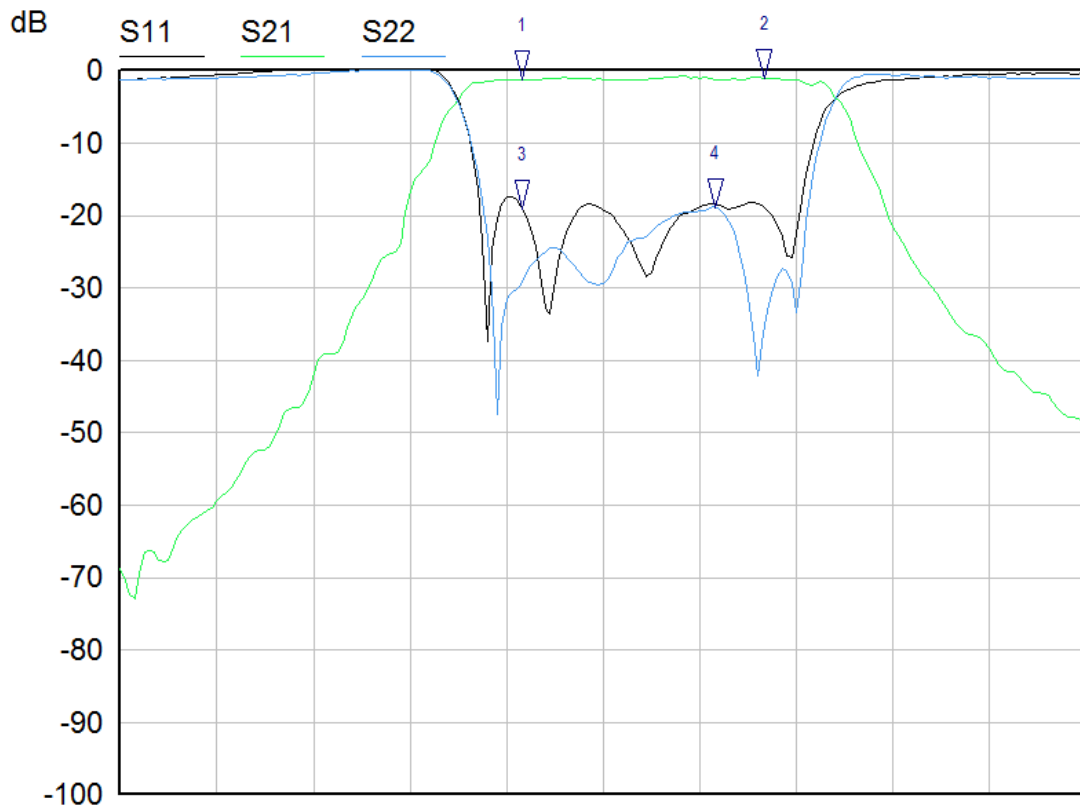
8720C

Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	5.6950 GHz	-0.37 dB	
2 ▾	S21	6.5000 GHz	-0.57 dB	
3 ▾	S11	5.7200 GHz	-19.03 dB	
4 ▾	S22	5.9500 GHz	-16.20 dB	



**TYPICAL CHARACTERISTICS
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High Passband (BPF2)



Start: 12.5000 GHz

Stop: 15.5000 GHz

12/28/2015 11:54:25 AM

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Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	13.7500 GHz	-1.32 dB	
2 ▾	S21	14.5000 GHz	-1.00 dB	
3 ▾	S11	13.7500 GHz	-19.12 dB	
4 ▾	S22	14.3500 GHz	-18.96 dB	



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CH to CH Isolation

