



**SUMMARY TEST DATA  
ON  
DD-20-218-5PF-1-N-FM-OPT0518**

PL27165/1947

Customer: \_\_\_\_\_ Tested By: E.Benson  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: DD-20-218-5PF-1-N-FM-OPT0518 Date: 11/20/2019  
Serial No: PL27165/1947 Drawing No: 27631046 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 to 18 GHz	0.5 to 18 GHz See Plot	PM QA1
2	VSWR In/Out:	3.5:1 Typ. (Measured @ -23dBm with 27kOhm load impedance)	2.77:1 See Plot	
3	Frequency Flatness:	±1.5 dB, ±1.0 dB Typ.	± 0.66 dB See Plot	
4	Speed:	5 ns	Pass By design	
5	Voltage Sensitivity:	650 mV/mW, 700mV/mW Typ.	655 mV/mW Typ. See Plot	
6	Tangential Sensitivity:	-50dBm @ 2 MHz Video Bandwidth	<-50dBm @ 2MHz	
7	Video Capacitance:	5.6 pF	Pass	
8	Output Voltage:	Negative (Positive is Available)	Pass	
9	Max Input Power:	+17 dBm	Pass	PM QA1

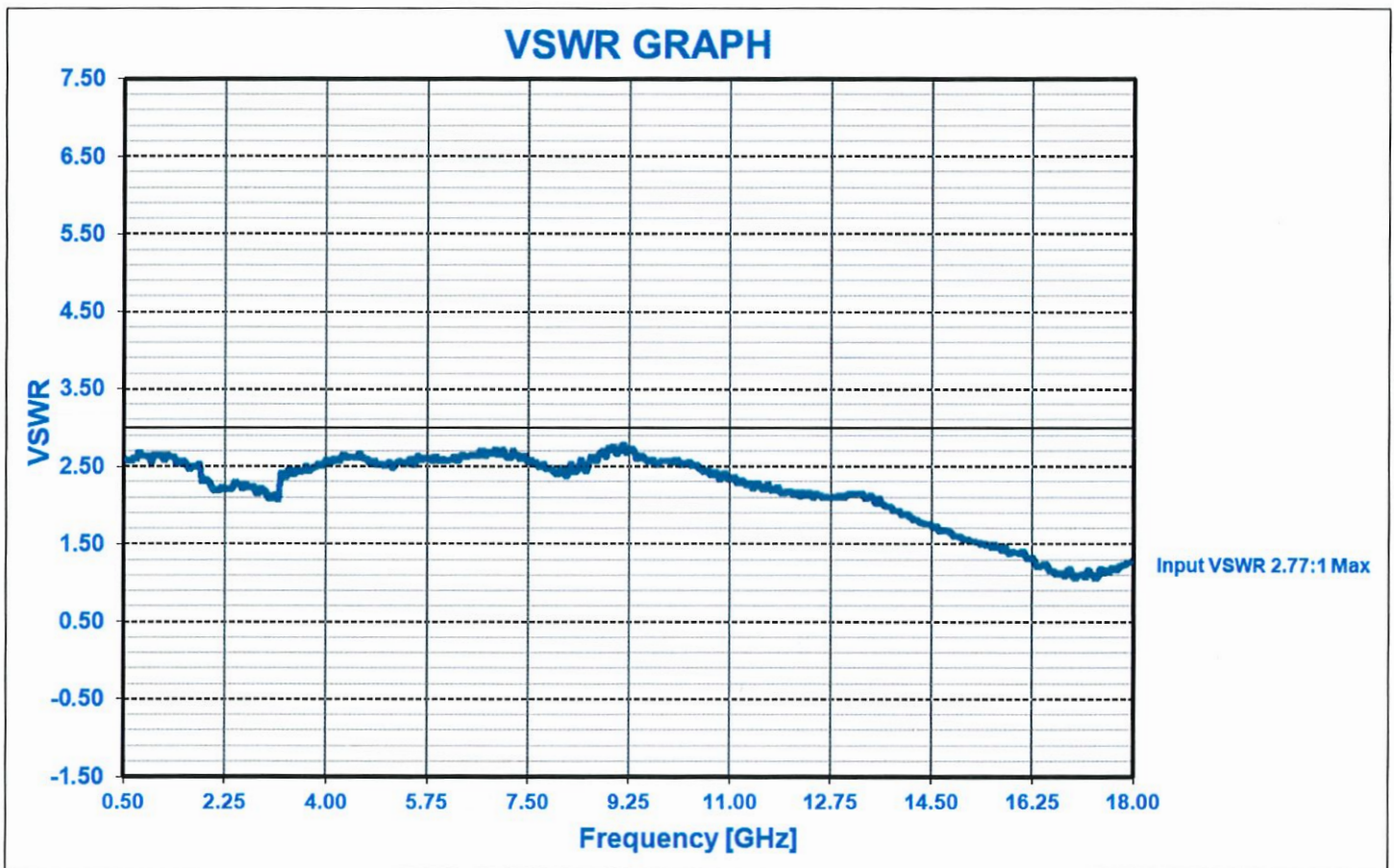
QA/QC Approval:  \_\_\_\_\_ PMI QA1 Date: 11/26/19



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PL27165/1947

VSWR Plot





**SUMMARY TEST DATA  
ON  
DD-20-218-5PF-1-N-FM-OPT0518**

PL27165/1947

**Flatness Plot**

MODEL: DD-20-218-5PF-1-P-M-OPT0518  
 SERIAL NO: PL27165  
 Test Temp: +25C  
 TESTED BY: E.BENSON  
 DATE: 11/15/19



INPUT POWER= -20dBm

0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0
-7.5	-7.6	-6.6	-6.7	-6.4	-5.9	-6.1	-5.8	-5.6	-6.1	-5.8	-6.9	-6.4	-7.0	-6.7	-7.6	-6.9	-6.9	-6.0
0.1	0.0	0.6	0.5	0.7	1.1	1.0	1.2	1.3	1.0	1.2	0.4	0.7	0.4	0.5	0.0	0.4	0.4	1.0

Frequency (GHz)
Measured (mV)
Flatness Error (dB)
+/- Error (dB)
Sensitivity (mV/mW) Typ

0.66  
655

**Detector V-Out VS frequency**

