



**SUMMARY TEST DATA
ON
SAA-218-6-093-13542 Opt. HERM**

Customer: _____
 SO No: _____
 Model No: SAA-218-6-093-013542 Opt. HERM
 Serial Pair: PL20161/1646

Tested By: K. Mansfield
 Temperature: 25 Degrees C
 Date: 10/9/2018
 Drawing No: 27613483 Rev: C1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	ATT1	ATT2	ATT3	ATT4	ATT5	ATT6	QA QC	
			(J2 - J8) PL20113	(J3 - J9) PL20114	(J4 - J10) PL20115	(J5 - J11) PL20116	(J6 - J12) PL20117	(J7 - J13) PL20118		
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz							PMI QA1
2	Logic High Voltage, VH:	2.0 V Min 3.5 V Max	2.0 V See Typical Characteristics							
3	Logic Low Voltage, VL:	0 V Min 0.8 V Max	0.8 V See Typical Characteristics							
4	Current at VH:	0 mA Min 24 mA Max	0.2 mA See Typical Characteristics							
5	Current at VL:	0 mA Min 24 mA Max	0.06 mA See Typical Characteristics							
6	Load Capacitance:	0 pF Min 35 pF Max	< 35 pF See Typical Characteristics							
7	Rise Time:	1.0 ns Min 2.0 ns Typ 10.0 ns Max	<10 ns See Typical Characteristics							
8	Fall Time:	1.0 ns Min 2.0 ns Typ 10.0 ns Max	<10 ns See Typical Characteristics							
9	Response Time:	100 ns Max (50% Voltage of input signal to 1 dB of final value of RF Attenuation)	<40 ns See Typical Characteristics							
10	Repetition Rate:	Switching From DC to 500 kHz	500 KHz See Typical Characteristics							
11	Insertion Loss:	"1 = IL of 1dB to 4dB" "0 = IL of 18dB to 22dB"	Pass							
12	Tolerance and Flatness:	Low Loss: +1 dB, -2 dB (IL of 1 dB to 4 dB)	IL -0.7 dB -2.6 dB Flatness ±1 dB	IL -0.9 dB -2.5 dB Flatness ±0.8 dB	IL -0.9 dB -2.7 dB Flatness ±0.9 dB	IL -0.9 dB -2.8 dB Flatness ±0.9 dB	IL -0.7 dB -2.4 dB Flatness ±0.8 dB	IL -0.7 dB -2.2 dB Flatness ±0.8 dB	PMI QA1	
		High Loss: +2 dB, -2 dB (IL of 18 dB to 22 dB)	-18.2 dB -21.3 dB Flatness ±1.5 dB	-18.4 dB -21.5 dB Flatness ±1.5 dB	-18.8 dB -21.7 dB Flatness ±1.4 dB	-18.1 dB -21.7 dB Flatness ±1.8 dB	-18.2 dB -21.4 dB Flatness ±1.6 dB	-18.2 dB -21.4 dB Flatness ±1.6 dB		
		See Plot								



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13	VSWR:	2.0:1 Max	1.8:1	1.9:1	1.8:1	1.9:1	1.9:1	1.8:1	PMI QA1	
			See Plot							
14	Output 1 dB Compression:	18 dBm	>22 dBm See Typical Characteristics						PMI QA1	
15	Isolation (Between any of the six outputs with any switch setting)	50 dB Min	<80 dB See Typical Characteristics							
16	Stability:	< -70 dBm Spurious Output Signal*	<-70 dBm See Typical Characteristics							
17	Video Spike Leakage:	< 500 mV Peak to Peak (Measured with a min bandwidth of 200 MHz)	<450 mV See Yypical Characteristics							
18	Spectral Activity:	-70 dBm Max	<-70 dBm See Typical Characteristics							
19	DC Voltage:	+5 VDC @ 0.30 A Max -5 VDC @ 0.30 A Max	+5 VDC @ 0.295 A -5 VDC @ 0.282 A							PMI QA1

*Should be unconditionally stable per the following conditions: A, B, C

A. With any input or output port terminated in any passive source or load impedance

B. With input power levels ranging from no input to the maximum that is specified on Table 1 (See Outline Drawing)

C. With any operating temperature specified in Table 1 (See Outline Drawing)

**AC Ripple Frequency is 600 kHz Typical

*** NOTE: Do not normalize insertion loss (low loss path) when measuring high loss path

QA/QC Approval

PMI
QA1

Date

16/9/18



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