



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

Customer: _____
 SO No: _____
 Model No: SAA-218-6-093-13542 Opt. HERM
 Serial Pair: PL20163/1648

Tested By: K. Mansfield
 Temperature: 25 Degrees C
 Date: 3/15/2019
 Drawing No: 27613483 Rev: B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	ATT1 (J2 - J8)	ATT2 (J3 - J9)	ATT3 (J4 - J10)	ATT4 (J5 - J11)	ATT5 (J6 - J12)	ATT6 (J7 - J13)	QA QC	
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							PMI QA1
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 = 2 dB Insertion Loss" "0 = 20 dB Insertion Loss"	Pass							
12	Tolerance and Flatness:	Low Loss: +1 dB, -2 dB (IL of 1 dB to 4 dB) High Loss: +2 dB, -2 dB (IL of 18 dB to 22 dB)	IL -0.7 dB -2.6 dB Flatness ±0.9 dB -18.5 dB -21.3 dB Flatness ±1.4 dB	IL -0.8 dB -2.5 dB Flatness ±0.9 dB -18.2 dB -21.4 dB Flatness ±1.6 dB	IL -0.7 dB -3 dB Flatness ±1.1 dB -18.2 dB -21.7 dB Flatness ±1.7 dB	IL -0.7 dB -2.1 dB Flatness ±0.7 dB -18 dB -20.9 dB Flatness ±1.4 dB	IL -0.7 dB -2.5 dB Flatness ±0.9 dB -18.1 dB -21.9 dB Flatness ±1.9 dB	IL -0.7 dB -2.3 dB Flatness ±0.8 dB -18.3 dB -21.2 dB Flatness ±1.4 dB	PMI QA1	
See Plot										



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13	VSWR:	2.0:1 Max	1.9:1	1.8:1	1.8:1	1.7:1	1.7:1	1.8:1	PMI QA 1
			See Plot						
14	Output 1 dB Compression:	18 dBm	>22 dBm See Typical Characteristics						
15	Isolation	50 dB Min (Between any of the six outputs with any switch setting)	<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 Typical 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 @ 0.296 A -5 VDC @ 0.225 A						PMI QA 1

*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

QA/QC Approval



PMI
QA 1

Date

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