



## SUMMARY TEST DATA ON SAA-218-6-093-013542 OPT. HERM

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SAA-218-6-093-013542 OPT. HERM  
 Serial No: PL38551/2247

Tested By: K. Mansfield  
 Temperature: 25° C  
 Date: 11/22/2022  
 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 QA2
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 <small>(50% Voltage of input signal to 1 dB of final value of RF Attenuation)</small>	<40 ns See Typical Characteristics						
10	Repetition Rate:	Switching From DC to 500 kHz	500 KHz See Typical Characteristics						
11	Insertion Loss:	"1" = Low Loss "0" = High Loss	Pass						
12	Tolerance and Flatness:	Low Loss: 0 to -4 dB	-0.8 dB -2.9 dB	-0.8 dB -2.7 dB	-0.7 dB -3 dB	-0.8 dB -2.7 dB	-1.1 dB -2.9 dB	-0.8 dB -3.3 dB	
		High Loss: -18 to -22 dB	-18.3 dB -21.7 dB	-18.3 dB -21.5 dB	-18.1 dB -21.6 dB	-18.1 dB -21.4 dB	-18.4 dB -21.2 dB	-18.3 dB -21.9 dB	
		See Plot							
13	VSWR:	2.0:1 Max	1.7:1	1.9:1	1.9:1	1.9:1	1.6:1	1.9:1	
			See Plot						PMI QA2

**SUMMARY TEST DATA  
ON  
SAA-218-6-093-013542 OPT. HERM**

14	Output 1 dB Compression:	18 dBm	>22 dBm See Typical Characteristics	PMI QA2
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 @ 0.259 A -5 VDC @ 0.226 A	

\*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  
QA2

Date:

11/22/2022

