



## 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: PL17770/1535

Tested By: K. Mansfield  
 Temperature: 25 Degrees C  
 Date: 1/16/2019  
 Drawing No: 27613483      Rev: C1

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						
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 = 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)	IL -0.8 dB -2.8 dB Flatness ±1 dB	IL -0.8 dB -2.4 dB Flatness ±0.8 dB	IL -0.8 dB -2.7 dB Flatness ±0.9 dB	IL -0.7 dB -2.9 dB Flatness ±1.1 dB	IL -0.9 dB -3 dB Flatness ±1.1 dB	IL -0.8 dB -3 dB Flatness ±1.1 dB	
		High Loss: +2 dB, -2 dB (IL of 18 dB to 22 dB)	-18.4 dB -21.8 dB Flatness ±1.7 dB	-18.4 dB -21.1 dB Flatness ±1.4 dB	-18.2 dB -21.6 dB Flatness ±1.7 dB	-18.1 dB -21.9 dB Flatness ±1.9 dB	-18.3 dB -21.4 dB Flatness ±1.6 dB	-18 dB -20.4 dB Flatness ±1.2 dB	
			See Plot						



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13	VSWR:	2.0:1 Max	1.7:1	1.8:1	1.9:1	1.8:1	1.9:1	1.9:1	
			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 @ 0.295 A -5 VDC @ 0.282 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 \_\_\_\_\_

Date \_\_\_\_\_



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