



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

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SAA-218-6-093-13542 Opt. HERM  
 Serial No: PL33724/2135

Tested By: K. Mansfield  
 Temperature: 25 Degrees C  
 Date: 8/31/2021  
 Drawing No: 27613483 Rev: D1

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							<b>PMI</b> <b>QA2</b>
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 -0.9 dB -2.5 dB Flatness ±0.8 dB	IL -0.9 dB -2.1 dB Flatness ±0.6 dB	IL -0.9 dB -2.4 dB Flatness ±0.8 dB	IL -0.9 dB -2.2 dB Flatness ±0.7 dB	IL -0.9 dB -2.3 dB Flatness ±0.7 dB	IL -0.9 dB -2.3 dB Flatness ±0.7 dB		
		High Loss: +2 dB, -2 dB (IL of 18 dB to 22 dB)	-19.3 dB -21.6 dB Flatness ±1.2 dB	-19.5 dB -21.8 dB Flatness ±1.1 dB	-18.8 dB -21.3 dB Flatness ±1.3 dB	-19.4 dB -21.9 dB Flatness ±1.2 dB	-19.9 dB -21.9 dB Flatness ±1 dB	-19.5 dB -21.9 dB Flatness ±1.2 dB		
			See Plot							
13	VSWR:	2.0:1 Max	1.9:1	1.7:1	1.9:1	1.5:1	1.9:1	1.6:1		
14	Output 1 dB Compression:	18 dBm	>22 dBm See Typical Characteristics							
15	Isolation (Between any of the six outputs with any switch setting)	50 dB Min	84 dB	84 dB	84 dB	84 dB	84 dB	83 dB		
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							



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18	Spectral Activity:	-70 dBm Max	<-70 dBm See Typical Characteristics	I
19	DC Voltage:	+5 VDC @ 0.30 A Max -5 VDC @ 0.30 A Max	+5 VDC @ 0.292 A -5 VDC @ 0.224 A	PMI QA3

\*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)

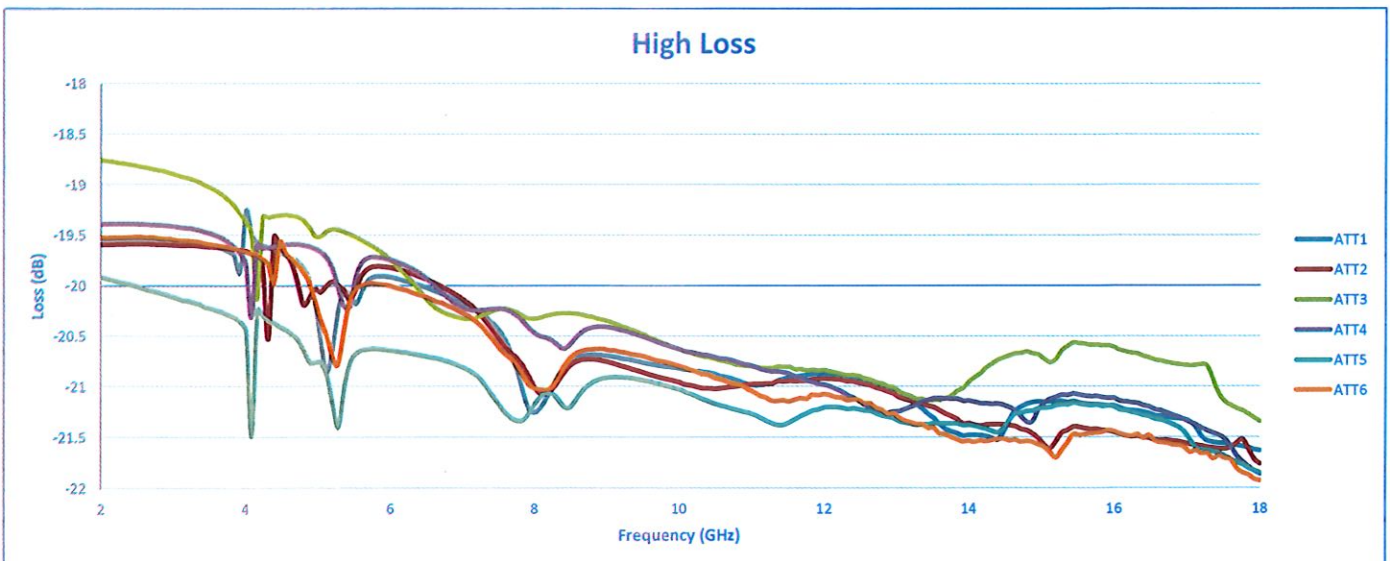
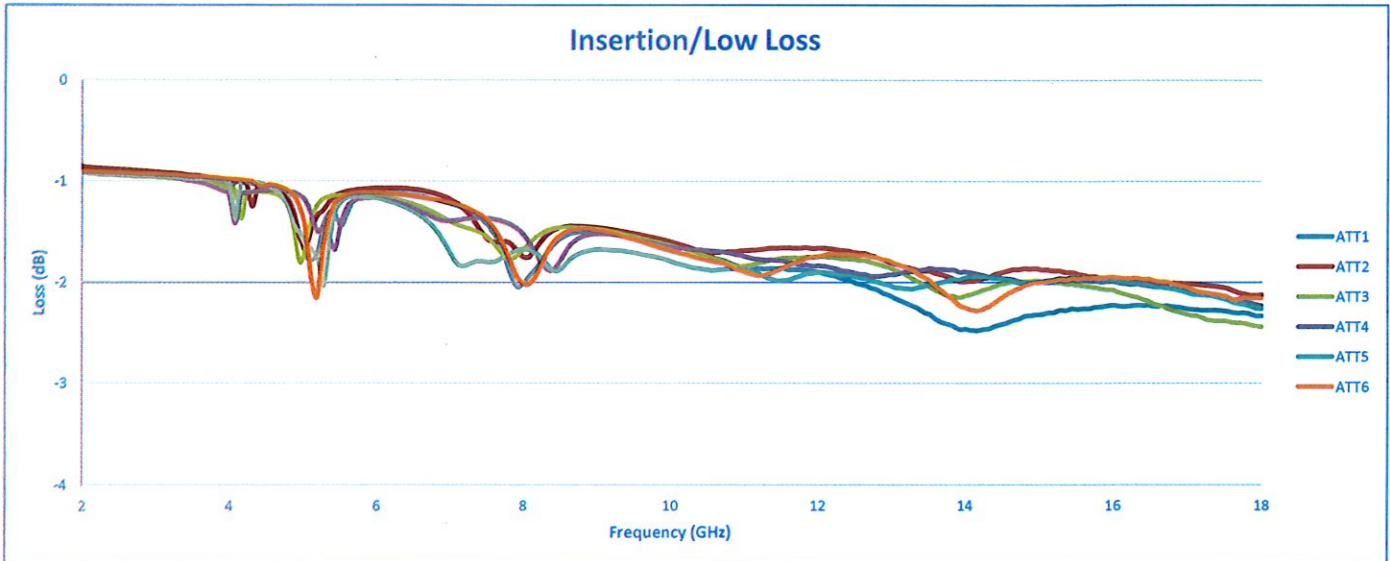
\*\*AC Ripple Frequency is 600 kHz Typical

QA/QC Approval

PMI  
QA3

Date

8/31/2021





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