

**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: PL43114/2348

Tested By: K. Mansfield
 Temperature: 25° C
 Date: 11/30/2023
 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 (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" = Low Loss "0" = High Loss | Pass | | | | | | | |
| 12 | Tolerance and Flatness: | Low Loss: 0 to -4 dB | -0.9 dB -2.5 dB | -0.8 dB -2.8 dB | -0.9 dB -2.7 dB | -0.9 dB -2.9 dB | -0.9 dB -2.9 dB | -0.8 dB -2.7 dB | | |
| | | High Loss: -18 to -22 dB | -18.2 dB -21.4 dB | -18.2 dB -21.4 dB | -18.2 dB -21.2 dB | -18.3 dB -21.2 dB | -18.2 dB -21.6 dB | -18.3 dB -21.5 dB | | |
| | | | See Plot | | | | | | | |
| 13 | VSWR: | 2.0:1 Max | 1.9:1 | 1.7:1 | 1.7:1 | 1.9:1 | 1.8:1 | 2:1 | PMI QA2 | |
| | | | See Plot | | | | | | | |

**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 @ 0.238 A -5 VDC @ 0.212 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:

Cameron Kelly

Date:

11/30/23

PMI
QA2

