An Axiometrix Solutions Brand

Calibration Services
9290 SW Nimbus Ave
Beaverton, Oregon 97008
USA

ACCREDITED
Calibration Cert #2527.01

# Calibration Report

## Accredited Calibration

## Report Number: 101305555-260415-1

**Model:** APx555 **Data Type:** **AS SHIPPED, NEW** **Program:**
**Serial Number:** XXXXXXXXX **Date of Cal:** XXXXXX APxCalibration.exe 24.01

| Internal Module Status and Data | | | |
|---|---|---|---|
| ***AP Name*** | ***Description*** | ***Serial No.*** | ***Revision*** |
| BRIO | Backplane module | XXXXX | 600 |
| BSL4 | Advanced Master Clock | XXXXX | 201 |
| B4AO | Analog Output module | XXXXX | 401 |
| B4SG | Analog Oscillator module | XXXXX | 304 |
| B4AI | Analog Input module | XXXXX | 400 |
| B4BR | Analog Bandreject module | XXXXX | 400 |
| BADI | Advanced DIO module | XXXXX | 103 |

| Software Options | |
|---|---|
| ADCTest | Installed |

**Explanatory notes to the last three columns of the calibration report**

**"MU"** - The column labeled "**MU**" lists the expanded measurement uncertainties derived from published specifications of the calibration equipment, resolution factors, statistical data of repeatability and/or other information. These are based on a coverage factor of 2 (k=2) corresponding to a confidence level of 95% using the recommendations in the Guide to the Expression of Uncertainty in Measurement, 1993, ISO Geneva; and NIST Technical Note 1297 (1994).

**"TUR"** - The column labeled "**TUR**" lists the test uncertainty ratio calculated by dividing the lesser of the lower and upper reading tolerances by the 95% expanded measurement uncertainty. An entry of "**na**" indicates [1] the specified limits are one-sided, or [2] the performance characteristic is a self-test or system specification that is not independently certifiable.

**"Result"** - The column labeled "Result" lists color-coded assessments that the observed characteristic is within its specified limits of performance. There are three possible indications:

**pass** -- *The READING is within the specified upper and lower limits reduced by guard-bands equal to the 95% expanded measurement uncertainty. The probability or risk of false acceptance is very low, typically <0.2%.*

**uncertain** -- *The READING is within the specified upper and lower limits, but it is close to one of the limits by an amount that is less than the 95% expanded measurement uncertainty. The probability or risk of false acceptance is elevated.*

**>> FAIL <<** -- *The READING is outside of the specified limit range.*

Accredited measurements listed in the following pages correlate to Audio Precision's Scope of Accreditation as noted:

*note 1* - Frequency Measurement
*note 2* - AC Voltage Measurement
*note 3* - AC Flatness Measurement
*note 4* - Resistance Measurement
*note 5* - DC Voltage Measurement
*note 6* - AC Voltage Source and AC Flatness Source for testing AC Measurement Equipment
*note 7* - DC Voltage Source for testing DC Measurement Equipment

This report is valid only when accompanied by a signed Certificate of Calibration. Specifications: NP0020.00030 r003

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG GENERATOR CHARACTERISTICS** | | | | | | | |
| **[1] DAC Sine Frequency Accuracy (Hz)** - *note 1* | | | | | | | |
| | 10 kHz | 9999.9700 | **10000.0009** | 10000.0300 | 0.0054 | 5.6 | **pass** |
| **[2] Analog Sine Frequency Accuracy (Hz)** - *note 1* | | | | | | | |
| | 5 Hz | 4.9825 | **5.0008** | 5.0175 | 0.0020 | ≥10 | **pass** |
| | 10 Hz | 9.9650 | **9.9981** | 10.0350 | 0.0020 | ≥10 | **pass** |
| | 100 Hz | 99.650 | **100.002** | 100.350 | 0.020 | ≥10 | **pass** |
| | 1 kHz | 996.50 | **999.95** | 1003.50 | 0.20 | ≥10 | **pass** |
| | 10 kHz | 9965.0 | **9999.5** | 10035.0 | 2.0 | ≥10 | **pass** |
| | 100 kHz | 99650 | **99999** | 100350 | 30 | ≥10 | **pass** |
| | 200 kHz | 199000 | **200106** | 201000 | 60 | ≥10 | **pass** |
| *Precision Tune* | 5 Hz | 4.99970 | **4.99998** | 5.00030 | 0.00005 | 6.0 | **pass** |
| | 10 Hz | 9.99970 | **10.00001** | 10.00030 | 0.00008 | 3.8 | **pass** |
| | 100 Hz | 99.9970 | **100.0000** | 100.0030 | 0.0004 | 7.5 | **pass** |
| | 1 kHz | 999.970 | **1000.000** | 1000.030 | 0.004 | 7.5 | **pass** |
| | 10 kHz | 9999.70 | **10000.00** | 10000.30 | 0.04 | 7.5 | **pass** |
| | 100 kHz | 99997.0 | **100000.0** | 100003.0 | 0.4 | 7.5 | **pass** |
| | 200 kHz | 199994.0 | **199999.5** | 200006.0 | 0.8 | 7.5 | **pass** |
| **[3] DAC Sine Amplitude Accuracy, 1 kHz (Volts, mVolts)** - *note 2* | | | | | | | |
| *Channel 1* | 13.33 V | 13.2840 | **13.3312** | 13.3761 | 0.0066 | 7.0 | **pass** |
| | 10.00V | 9.9655 | **9.9998** | 10.0346 | 0.0028 | ≥10 | **pass** |
| | 5.000V | 4.9828 | **5.0001** | 5.0173 | 0.0014 | ≥10 | **pass** |
| | 2.000V | 1.99310 | **2.00017** | 2.00692 | 0.00072 | 9.6 | **pass** |
| | 1.500V | 1.49483 | **1.50015** | 1.50519 | 0.00054 | 9.6 | **pass** |
| | 1.000V | 0.99655 | **1.00023** | 1.00346 | 0.00028 | ≥10 | **pass** |
| | 500 mV | 498.28 | **500.03** | 501.73 | 0.14 | ≥10 | **pass** |
| | 300 mV | 298.97 | **300.02** | 301.04 | 0.11 | 9.4 | **pass** |
| | 200 mV | 199.310 | **200.042** | 200.692 | 0.085 | 8.1 | **pass** |
| | 100 mV | 99.655 | **100.015** | 100.346 | 0.038 | 9.1 | **pass** |
| | 70 mV | 69.759 | **70.019** | 70.242 | 0.032 | 7.6 | **pass** |
| | 50 mV | 49.828 | **49.997** | 50.173 | 0.023 | 7.5 | **pass** |
| | 20 mV | 19.931 | **19.998** | 20.069 | 0.014 | 4.9 | **pass** |
| | 12 mV | 11.959 | **12.002** | 12.042 | 0.013 | 3.2 | **pass** |
| *Channel 2* | 13.33 V | 13.2840 | **13.3298** | 13.3761 | 0.0066 | 7.0 | **pass** |
| | 10.00V | 9.9655 | **9.9997** | 10.0346 | 0.0028 | ≥10 | **pass** |
| | 5.000V | 4.9828 | **4.9999** | 5.0173 | 0.0014 | ≥10 | **pass** |
| | 2.000V | 1.99310 | **2.00006** | 2.00692 | 0.00072 | 9.6 | **pass** |
| | 1.500V | 1.49483 | **1.50008** | 1.50519 | 0.00054 | 9.6 | **pass** |
| | 1.000V | 0.99655 | **1.00017** | 1.00346 | 0.00028 | ≥10 | **pass** |
| | 500 mV | 498.28 | **500.09** | 501.73 | 0.14 | ≥10 | **pass** |
| | 300 mV | 298.97 | **300.04** | 301.04 | 0.11 | 9.4 | **pass** |
| | 200 mV | 199.310 | **200.017** | 200.692 | 0.085 | 8.1 | **pass** |
| | 100 mV | 99.655 | **100.019** | 100.346 | 0.038 | 9.1 | **pass** |
| | 70 mV | 69.759 | **70.013** | 70.242 | 0.032 | 7.6 | **pass** |
| | 50 mV | 49.828 | **49.993** | 50.173 | 0.023 | 7.5 | **pass** |
| | 20 mV | 19.931 | **19.999** | 20.069 | 0.014 | 4.9 | **pass** |
| | 12 mV | 11.959 | **12.002** | 12.042 | 0.013 | 3.2 | **pass** |
| **[4] Analog Sine Amplitude Accuracy, 1 kHz (Volts)** - *note 2* | | | | | | | |
| *Channel 1* | 1 V | 0.99655 | **1.00036** | 1.00346 | 0.00028 | ≥10 | **pass** |
| *Channel 2* | 1 V | 0.99655 | **1.00030** | 1.00346 | 0.00028 | ≥10 | **pass** |
| **[5] Sine Burst Amplitude Accuracy, 1 kHz (Volts)** - *note 2* | | | | | | | |
| | 1 V | 0.99426 | **1.00019** | 1.00577 | 0.00028 | ≥10 | **pass** |
| **[6] Sine Burst Ratio Accuracy, 1 kHz (dB)** - *note 2* | | | | | | | |
| | 0 dB | -0.150 | **-0.029** | 0.150 | 0.017 | 8.8 | **pass** |
| | -10 dB | -10.150 | **-10.024** | -9.850 | 0.020 | 7.5 | **pass** |
| | -20 dB | -20.150 | **-20.035** | -19.850 | 0.021 | 7.1 | **pass** |
| | -30 dB | -30.150 | **-30.029** | -29.850 | 0.020 | 7.5 | **pass** |
| | -40 dB | -40.150 | **-40.035** | -39.850 | 0.021 | 7.1 | **pass** |
| | -50 dB | -50.150 | **-50.030** | -49.850 | 0.040 | 3.8 | **pass** |
| | -60 dB | -60.150 | **-60.030** | -59.850 | 0.040 | 3.8 | **pass** |
| **[7] SMPTE IMD Amplitude Accuracy, 60 Hz + 7 kHz (Volts)** - *note 2* | | | | | | | |
| | 10:1 ratio | 0.9063 | **0.9136** | 0.9210 | 0.0006 | ≥10 | **pass** |
| | 4:1 ratio | 0.8180 | **0.8246** | 0.8313 | 0.0006 | ≥10 | **pass** |
| | 1:1 ratio | 0.7014 | **0.7072** | 0.7128 | 0.0005 | ≥10 | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG GENERATOR, continued** | | | | | | | |
| **[8] DFD IMD Amplitude Accuracy, 19 kHz + 20 kHz (Volts)** - *note 2* | | | | | | | |
| | 1 V | 0.7014 | **0.7070** | 0.7128 | 0.0005 | ≥10 | **pass** |
| **[9] DIM IMD Amplitude Accuracy (Volts)** - *note 2* | | | | | | | |
| *DIM-100* | 1 V | 1.1282 | **1.1384** | 1.1519 | 0.0024 | 5.0 | **pass** |
| *DIM-30* | 1 V | 1.0995 | **1.1118** | 1.1226 | 0.0024 | 4.8 | **pass** |
| **[10] Square-Wave Amplitude Accuracy, 100 Hz (Volts)** - *note 2* | | | | | | | |
| | 1 Vrms | 1.3996 | **1.4142** | 1.4289 | 0.0035 | 4.2 | **pass** |
| **[11] DAC Sine Flatness, 1.15 Vrms (dB)** - *note 3* | | | | | | | |
| *Channel 1* | 10 Hz | -0.0080 | **-0.0004** | 0.0080 | 0.0018 | 4.4 | **pass** |
| | 20 Hz | -0.0080 | **-0.0003** | 0.0080 | 0.0017 | 4.7 | **pass** |
| | 20 kHz | -0.0080 | **-0.0025** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 50 kHz | -0.0300 | **-0.0021** | 0.0300 | 0.0040 | 7.5 | **pass** |
| | 80 kHz | -0.1000 | **-0.0405** | 0.1000 | 0.0092 | ≥10 | **pass** |
| *Channel 2* | 10 Hz | -0.0080 | **-0.0004** | 0.0080 | 0.0018 | 4.4 | **pass** |
| | 20 Hz | -0.0080 | **-0.0002** | 0.0080 | 0.0017 | 4.7 | **pass** |
| | 20 kHz | -0.0080 | **-0.0027** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 50 kHz | -0.0300 | **-0.0023** | 0.0300 | 0.0040 | 7.5 | **pass** |
| | 80 kHz | -0.1000 | **-0.0409** | 0.1000 | 0.0092 | ≥10 | **pass** |
| **[12] Analog Sine Flatness, 1.15 Vrms (dB)** - *note 3* | | | | | | | |
| *Channel 1* | 5 Hz | -0.0080 | **0.0002** | 0.0080 | 0.0018 | 4.4 | **pass** |
| | 20 Hz | -0.0080 | **0.0000** | 0.0080 | 0.0017 | 4.7 | **pass** |
| | 50 Hz | -0.0080 | **-0.0001** | 0.0080 | 0.0014 | 5.7 | **pass** |
| | 10 kHz | -0.0080 | **-0.0005** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 20 kHz | -0.0080 | **-0.0001** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 50 kHz | -0.0150 | **0.0019** | 0.0150 | 0.0036 | 4.2 | **pass** |
| | 100 kHz | -0.0600 | **0.0087** | 0.0600 | 0.0081 | 7.4 | **pass** |
| | 200 kHz | -0.150 | **0.014** | 0.150 | 0.028 | 5.4 | **pass** |
| *Channel 2* | 5 Hz | -0.0080 | **0.0000** | 0.0080 | 0.0018 | 4.4 | **pass** |
| | 20 Hz | -0.0080 | **0.0000** | 0.0080 | 0.0017 | 4.7 | **pass** |
| | 50 Hz | -0.0080 | **-0.0001** | 0.0080 | 0.0014 | 5.7 | **pass** |
| | 10 kHz | -0.0080 | **-0.0004** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 20 kHz | -0.0080 | **-0.0002** | 0.0080 | 0.0019 | 4.2 | **pass** |
| | 50 kHz | -0.0150 | **0.0020** | 0.0150 | 0.0036 | 4.2 | **pass** |
| | 100 kHz | -0.0600 | **0.0088** | 0.0600 | 0.0081 | 7.4 | **pass** |
| | 200 kHz | -0.150 | **0.015** | 0.150 | 0.028 | 5.4 | **pass** |
| **[13] DC Offset (mV), Unbal** - *note 5* | | | | | | | |
| *Channel 1* | 10.0 V | -25.10 | **2.01** | 25.10 | 0.40 | ≥10 | **pass** |
| | 1.000 V | -2.600 | **0.219** | 2.600 | 0.40 | 6.5 | **pass** |
| | 100 mV | -0.350 | **0.026** | 0.350 | 0.024 | ≥10 | **pass** |
| | 10 mV | -0.125 | **0.005** | 0.125 | 0.024 | 5.2 | **pass** |
| *Channel 2* | 10.0 V | -25.10 | **1.03** | 25.10 | 0.40 | ≥10 | **pass** |
| | 1.000 V | -2.600 | **0.200** | 2.600 | 0.40 | 6.5 | **pass** |
| | 100 mV | -0.350 | **0.023** | 0.350 | 0.024 | ≥10 | **pass** |
| | 10 mV | -0.125 | **0.004** | 0.125 | 0.024 | 5.2 | **pass** |
| **[14] Source Resistance Accuracy (Ω)** - *note 4* | | | | | | | |
| *Ch 1, Unbal* | 20 Ω | 19.600 | **20.120** | 20.400 | 0.048 | 8.3 | **pass** |
| | 50 Ω | 49.250 | **50.134** | 50.750 | 0.060 | ≥10 | **pass** |
| | 75 Ω | 74.100 | **75.129** | 75.900 | 0.070 | ≥10 | **pass** |
| | 100 Ω | 99.000 | **100.124** | 101.000 | 0.080 | ≥10 | **pass** |
| | 600 Ω | 597.00 | **599.72** | 603.00 | 0.28 | ≥10 | **pass** |
| *Ch 2, Unbal* | 20 Ω | 19.600 | **20.115** | 20.400 | 0.048 | 8.3 | **pass** |
| | 50 Ω | 49.250 | **50.136** | 50.750 | 0.060 | ≥10 | **pass** |
| | 75 Ω | 74.100 | **75.130** | 75.900 | 0.070 | ≥10 | **pass** |
| | 100 Ω | 99.000 | **100.127** | 101.000 | 0.080 | ≥10 | **pass** |
| | 600 Ω | 597.00 | **599.69** | 603.00 | 0.28 | ≥10 | **pass** |
| *Ch 1, Bal* | 40 Ω | 39.400 | **40.270** | 40.600 | 0.076 | 7.9 | **pass** |
| | 100 Ω | 99.00 | **100.30** | 101.00 | 0.10 | ≥10 | **pass** |
| | 150 Ω | 148.50 | **150.29** | 151.50 | 0.12 | ≥10 | **pass** |
| | 200 Ω | 198.00 | **200.28** | 202.00 | 0.14 | ≥10 | **pass** |
| | 600 Ω | 597.00 | **600.11** | 603.00 | 0.30 | ≥10 | **pass** |
| *Ch 2, Bal* | 40 Ω | 39.400 | **40.251** | 40.600 | 0.076 | 7.9 | **pass** |
| | 100 Ω | 99.00 | **100.28** | 101.00 | 0.10 | ≥10 | **pass** |
| | 150 Ω | 148.50 | **150.28** | 151.50 | 0.12 | ≥10 | **pass** |
| | 200 Ω | 198.00 | **200.27** | 202.00 | 0.14 | ≥10 | **pass** |
| | 600 Ω | 597.00 | **600.09** | 603.00 | 0.30 | ≥10 | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG GENERATOR, continued** | | | | | | | |
| **[15] DC Offset Accuracy (V), Bal ADC Test** - *note 5* | | | ADC Test requires a purchased software option. | | | | |
| *Channel 1 pos* | 4.2 V | 4.1844 | **4.1969** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *200 mVrms* | 2.5 V | 2.4895 | **2.4986** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3990** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 1 neg* | 4.2 V | 4.1844 | **4.1969** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *200 mVrms* | 2.5 V | 2.4895 | **2.4986** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3991** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 1 pos* | 4.2 V | 4.1844 | **4.1988** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *100 mVrms* | 2.5 V | 2.4895 | **2.4999** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3991** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 1 neg* | 4.2 V | 4.1844 | **4.1988** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *100 mVrms* | 2.5 V | 2.4895 | **2.4998** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3991** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 2 pos* | 4.2 V | 4.1844 | **4.1973** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *200 mVrms* | 2.5 V | 2.4895 | **2.4986** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3998** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 2 neg* | 4.2 V | 4.1844 | **4.1972** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *200 mVrms* | 2.5 V | 2.4895 | **2.4985** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3999** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 2 pos* | 4.2 V | 4.1844 | **4.1991** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *100 mVrms* | 2.5 V | 2.4895 | **2.4998** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.3999** | -0.3958 | 0.0004 | ≥10 | **pass** |
| *Channel 2 neg* | 4.2 V | 4.1844 | **4.1991** | 4.2156 | 0.0004 | ≥10 | **pass** |
| *100 mVrms* | 2.5 V | 2.4895 | **2.4997** | 2.5105 | 0.0004 | ≥10 | **pass** |
| | -0.4 V | -0.4042 | **-0.4000** | -0.3958 | 0.0004 | ≥10 | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG ANALYZER CHARACTERISTICS** | | | | | | | |
| **[16] Input Termination Accuracy (Ω)** - *note 4* | | | | | | | |
| *Channel 1* | 300 Ω | 298.50 | **300.67** | 301.50 | 0.18 | 8.3 | **pass** |
| | 600 Ω | 597.00 | **600.98** | 603.00 | 0.30 | ≥10 | **pass** |
| *Channel 2* | 300 Ω | 298.50 | **300.61** | 301.50 | 0.18 | 8.3 | **pass** |
| | 600 Ω | 597.00 | **600.95** | 603.00 | 0.30 | ≥10 | **pass** |
| **[17] DC Measurement Accuracy (Volts, mVolts)** - *note 7* | | | | | | | |
| *Channel 1* | +160V, 320V range | 158.560 | **159.911** | 161.440 | 0.260 | 5.5 | **pass** |
| | +160 V | 158.720 | **159.916** | 161.280 | 0.260 | 4.9 | **pass** |
| | +80 V | 79.360 | **79.957** | 80.640 | 0.130 | 4.9 | **pass** |
| | +40 V | 39.680 | **39.979** | 40.320 | 0.064 | 5.0 | **pass** |
| | +20 V | 19.840 | **19.989** | 20.160 | 0.032 | 5.0 | **pass** |
| | +10 V | 9.9200 | **9.9944** | 10.0800 | 0.0160 | 5.0 | **pass** |
| | +5 V | 4.9600 | **4.9971** | 5.0400 | 0.0080 | 5.0 | **pass** |
| | +2.5 V | 2.4800 | **2.4987** | 2.5200 | 0.0040 | 5.0 | **pass** |
| | +1.25 V | 1.2400 | **1.2494** | 1.2600 | 0.0020 | 5.0 | **pass** |
| | +620 mV | 614.86 | **619.72** | 625.14 | 0.99 | 5.2 | **pass** |
| | +310 mV | 307.03 | **309.85** | 312.97 | 0.50 | 5.9 | **pass** |
| | 0 mV | -0.800 | **0.021** | 0.800 | 0.160 | 5.0 | **pass** |
| | -310 mV | -312.97 | **-309.81** | -307.03 | 0.50 | 5.9 | **pass** |
| | -620 mV | -625.14 | **-619.69** | -614.86 | 0.99 | 5.2 | **pass** |
| | -1.25 V | -1.2600 | **-1.2494** | -1.2400 | 0.0020 | 5.0 | **pass** |
| | -2.5 V | -2.5200 | **-2.4989** | -2.4800 | 0.0040 | 5.0 | **pass** |
| | -5 V | -5.0400 | **-4.9975** | -4.9600 | 0.0080 | 5.0 | **pass** |
| | -10 V | -10.0800 | **-9.9950** | -9.9200 | 0.0160 | 5.0 | **pass** |
| | -20 V | -20.160 | **-19.990** | -19.840 | 0.032 | 5.0 | **pass** |
| | -40V | -40.320 | **-39.981** | -39.680 | 0.064 | 5.0 | **pass** |
| | -80 V | -80.640 | **-79.964** | -79.360 | 0.130 | 4.9 | **pass** |
| | -160 V | -161.280 | **-159.926** | -158.720 | 0.260 | 4.9 | **pass** |
| | -160V, 320V range | -161.440 | **-159.932** | -158.560 | 0.260 | 5.5 | **pass** |
| *Channel 2* | +160V, 320V range | 158.560 | **159.935** | 161.440 | 0.260 | 5.5 | **pass** |
| | +160 V | 158.720 | **159.919** | 161.280 | 0.260 | 4.9 | **pass** |
| | +80 V | 79.360 | **79.958** | 80.640 | 0.130 | 4.9 | **pass** |
| | +40 V | 39.680 | **39.979** | 40.320 | 0.064 | 5.0 | **pass** |
| | +20 V | 19.840 | **19.989** | 20.160 | 0.032 | 5.0 | **pass** |
| | +10 V | 9.9200 | **9.9951** | 10.0800 | 0.0160 | 5.0 | **pass** |
| | +5 V | 4.9600 | **4.9975** | 5.0400 | 0.0080 | 5.0 | **pass** |
| | +2.5 V | 2.4800 | **2.4984** | 2.5200 | 0.0040 | 5.0 | **pass** |
| | +1.25 V | 1.2400 | **1.2492** | 1.2600 | 0.0020 | 5.0 | **pass** |
| | +620 mV | 614.86 | **619.54** | 625.14 | 0.99 | 5.2 | **pass** |
| | +310 mV | 307.03 | **309.69** | 312.97 | 0.50 | 5.9 | **pass** |
| | 0 mV | -0.800 | **-0.076** | 0.800 | 0.160 | 5.0 | **pass** |
| | -310 mV | -312.97 | **-309.84** | -307.03 | 0.50 | 5.9 | **pass** |
| | -620 mV | -625.14 | **-619.61** | -614.86 | 0.99 | 5.2 | **pass** |
| | -1.25 V | -1.2600 | **-1.2491** | -1.2400 | 0.0020 | 5.0 | **pass** |
| | -2.5 V | -2.5200 | **-2.4981** | -2.4800 | 0.0040 | 5.0 | **pass** |
| | -5 V | -5.0400 | **-4.9967** | -4.9600 | 0.0080 | 5.0 | **pass** |
| | -10 V | -10.0800 | **-9.9934** | -9.9200 | 0.0160 | 5.0 | **pass** |
| | -20 V | -20.160 | **-19.988** | -19.840 | 0.032 | 5.0 | **pass** |
| | -40V | -40.320 | **-39.974** | -39.680 | 0.064 | 5.0 | **pass** |
| | -80 V | -80.640 | **-79.950** | -79.360 | 0.130 | 4.9 | **pass** |
| | -160 V | -161.280 | **-159.896** | -158.720 | 0.260 | 4.9 | **pass** |
| | -160V, 320V range | -161.440 | **-159.885** | -158.560 | 0.260 | 5.5 | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG ANALYZER, continued** | | | | | | | |
| **[18] Input Common Mode Rejection (mV) - non-accredited** | | | | | | | |
| *Channel 1* | 2.5V range, 200 Hz | 0 | **0.003** | 0.158 | 0.070 | na | **pass** |
| *(5V CM signal)* | 2.5V range, 5 kHz | 0 | **0.010** | 0.158 | 0.082 | na | **pass** |
| | 2.5V range, 20 kHz | 0 | **0.03** | 0.50 | 0.18 | na | **pass** |
| | 5V range, 20 kHz | 0 | **0.41** | 2.81 | 0.19 | na | **pass** |
| *(20V CM signal)* | 20V range, 5 kHz | 0 | **7.42** | 63.25 | 0.87 | na | **pass** |
| | 80V range, 5 kHz | 0 | **4.08** | 63.25 | 0.87 | na | **pass** |
| *Channel 2* | 2.5V range, 200 Hz | 0 | **0.017** | 0.158 | 0.070 | na | **pass** |
| *(5V CM signal)* | 2.5V range, 5 kHz | 0 | **0.021** | 0.158 | 0.082 | na | **pass** |
| | 2.5V range, 20 kHz | 0 | **0.05** | 0.50 | 0.18 | na | **pass** |
| | 5V range, 20 kHz | 0 | **0.30** | 2.81 | 0.19 | na | **pass** |
| *(20V CM signal)* | 20V range, 5 kHz | 0 | **4.85** | 63.25 | 0.87 | na | **pass** |
| | 80V range, 5 kHz | 0 | **6.31** | 63.25 | 0.87 | na | **pass** |
| **[19] Level Meter AC Accuracy, 1 kHz (Volts, mVolts)** - *note 6* | | | | | | | |
| *Channel 1* | 160 V | 159.448 | **159.921** | 160.554 | 0.260 | 2.1 | **pass** |
| | 100 V | 99.655 | **99.951** | 100.346 | 0.160 | 2.2 | **pass** |
| | 50 V | 49.828 | **49.975** | 50.173 | 0.081 | 2.1 | **pass** |
| | 25 V | 24.914 | **24.987** | 25.086 | 0.040 | 2.2 | **pass** |
| | 15 V | 14.9483 | **14.9920** | 15.0519 | 0.0240 | 2.2 | **pass** |
| | 8 V | 7.9724 | **7.9957** | 8.0277 | 0.0130 | 2.1 | **pass** |
| | 4 V | 3.9862 | **3.9978** | 4.0138 | 0.0065 | 2.1 | **pass** |
| | 2 V | 1.9931 | **1.9991** | 2.0069 | 0.0032 | 2.2 | **pass** |
| | 1 V | 0.99655 | **0.99956** | 1.00346 | 0.00160 | 2.2 | **pass** |
| | 500 mV | 498.28 | **499.78** | 501.73 | 0.81 | 2.1 | **pass** |
| | 250 mV | 249.14 | **249.88** | 250.86 | 0.40 | 2.2 | **pass** |
| | 5 mV | 4.9828 | **4.9979** | 5.0173 | 0.0100 | 1.7 | **pass** |
| *500 kHz BW* | 2 V | 1.9931 | **1.9995** | 2.0069 | 0.0030 | 2.3 | **pass** |
| *Channel 2* | 160 V | 159.448 | **159.910** | 160.554 | 0.260 | 2.1 | **pass** |
| | 100 V | 99.655 | **99.943** | 100.346 | 0.160 | 2.2 | **pass** |
| | 50 V | 49.828 | **49.972** | 50.173 | 0.081 | 2.1 | **pass** |
| | 25 V | 24.914 | **24.986** | 25.086 | 0.040 | 2.2 | **pass** |
| | 15 V | 14.9483 | **14.9911** | 15.0519 | 0.0240 | 2.2 | **pass** |
| | 8 V | 7.9724 | **7.9953** | 8.0277 | 0.0130 | 2.1 | **pass** |
| | 4 V | 3.9862 | **3.9976** | 4.0138 | 0.0065 | 2.1 | **pass** |
| | 2 V | 1.9931 | **1.9987** | 2.0069 | 0.0032 | 2.2 | **pass** |
| | 1 V | 0.99655 | **0.99935** | 1.00346 | 0.00160 | 2.2 | **pass** |
| | 500 mV | 498.28 | **499.67** | 501.73 | 0.81 | 2.1 | **pass** |
| | 250 mV | 249.14 | **249.83** | 250.86 | 0.40 | 2.2 | **pass** |
| | 5 mV | 4.9828 | **4.9968** | 5.0173 | 0.0100 | 1.7 | **pass** |
| *500 kHz BW* | 2 V | 1.9931 | **1.9998** | 2.0069 | 0.0030 | 2.3 | **pass** |
| **[20] Level Meter AC Flatness, 1.15 Vrms (dB)** - *note 6* | | | | | | | |
| *Channel 1* | 10 Hz | -0.0300 | **-0.0011** | 0.0300 | 0.0030 | ≥10 | **pass** |
| | 15 Hz | -0.0300 | **-0.0005** | 0.0300 | 0.0030 | ≥10 | **pass** |
| | 20 Hz | -0.0080 | **-0.0004** | 0.0080 | 0.0029 | 2.8 | **pass** |
| | 20 kHz | -0.0080 | **0.0022** | 0.0080 | 0.0024 | 3.3 | **pass** |
| | 50 kHz | -0.0300 | **0.0082** | 0.0300 | 0.0031 | 9.7 | **pass** |
| | 80 kHz | -0.0800 | **-0.0108** | 0.0800 | 0.0061 | ≥10 | **pass** |
| *500 kHz BW* | 100 kHz | -0.0800 | **-0.0030** | 0.0800 | 0.0070 | ≥10 | **pass** |
| | 300 kHz | -0.200 | **-0.009** | 0.200 | 0.028 | 7.1 | **pass** |
| *Channel 2* | 10 Hz | -0.0300 | **-0.0011** | 0.0300 | 0.0030 | ≥10 | **pass** |
| | 15 Hz | -0.0300 | **-0.0006** | 0.0300 | 0.0030 | ≥10 | **pass** |
| | 20 Hz | -0.0080 | **-0.0005** | 0.0080 | 0.0029 | 2.8 | **pass** |
| | 20 kHz | -0.0080 | **0.0019** | 0.0080 | 0.0024 | 3.3 | **pass** |
| | 50 kHz | -0.0300 | **0.0079** | 0.0300 | 0.0031 | 9.7 | **pass** |
| | 80 kHz | -0.0800 | **-0.0111** | 0.0800 | 0.0061 | ≥10 | **pass** |
| *500 kHz BW* | 100 kHz | -0.0800 | **-0.0027** | 0.0800 | 0.0070 | ≥10 | **pass** |
| | 300 kHz | -0.200 | **-0.008** | 0.200 | 0.028 | 7.1 | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **ANALOG ANALYZER, continued** | | | | | | | |
| **[21] THD+N Harmonic Measurement Accuracy (dBV)** - *note 6* | | | | | | | |
| *Channel 1* | 40 Hz | -20.300 | **-20.208** | -19.700 | 0.011 | ≥10 | **pass** |
| *20 Hz notch* | 60 Hz | -20.300 | **-20.070** | -19.700 | 0.011 | ≥10 | **pass** |
| | 20 kHz | -20.300 | **-20.006** | -19.700 | 0.011 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.009** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 1* | 20 Hz | -20.300 | **-20.002** | -19.700 | 0.011 | ≥10 | **pass** |
| *1 kHz notch* | 500 Hz | -20.300 | **-20.210** | -19.700 | 0.011 | ≥10 | **pass** |
| | 2.0 kHz | -20.300 | **-20.206** | -19.700 | 0.011 | ≥10 | **pass** |
| | 3.0 kHz | -20.300 | **-20.070** | -19.700 | 0.011 | ≥10 | **pass** |
| | 20 kHz | -20.300 | **-20.007** | -19.700 | 0.011 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.009** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 1* | 20 Hz | -20.300 | **-20.001** | -19.700 | 0.011 | ≥10 | **pass** |
| *20 kHz notch* | 10 kHz | -20.300 | **-20.209** | -19.700 | 0.011 | ≥10 | **pass** |
| | 40 kHz | -20.300 | **-20.201** | -19.700 | 0.011 | ≥10 | **pass** |
| | 60 kHz | -20.300 | **-20.066** | -19.700 | 0.013 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.024** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 1* | 20 Hz | -20.300 | **-20.002** | -19.700 | 0.011 | ≥10 | **pass** |
| *100 kHz notch* | 20 kHz | -20.300 | **-20.028** | -19.700 | 0.011 | ≥10 | **pass** |
| | 50 kHz | -20.300 | **-20.216** | -19.700 | 0.011 | ≥10 | **pass** |
| | 200 kHz | -20.500 | **-20.180** | -19.500 | 0.045 | ≥10 | **pass** |
| | 300 kHz | -20.500 | **-20.052** | -19.500 | 0.063 | 7.9 | **pass** |
| *Channel 2* | 40 Hz | -20.300 | **-20.209** | -19.700 | 0.011 | ≥10 | **pass** |
| *20 Hz notch* | 60 Hz | -20.300 | **-20.070** | -19.700 | 0.011 | ≥10 | **pass** |
| | 20 kHz | -20.300 | **-20.006** | -19.700 | 0.011 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.009** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 2* | 20 Hz | -20.300 | **-20.002** | -19.700 | 0.011 | ≥10 | **pass** |
| *1 kHz notch* | 500 Hz | -20.300 | **-20.211** | -19.700 | 0.011 | ≥10 | **pass** |
| | 2.0 kHz | -20.300 | **-20.208** | -19.700 | 0.011 | ≥10 | **pass** |
| | 3.0 kHz | -20.300 | **-20.071** | -19.700 | 0.011 | ≥10 | **pass** |
| | 20 kHz | -20.300 | **-20.007** | -19.700 | 0.011 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.009** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 2* | 20 Hz | -20.300 | **-20.002** | -19.700 | 0.011 | ≥10 | **pass** |
| *20 kHz notch* | 10 kHz | -20.300 | **-20.210** | -19.700 | 0.011 | ≥10 | **pass** |
| | 40 kHz | -20.300 | **-20.202** | -19.700 | 0.011 | ≥10 | **pass** |
| | 60 kHz | -20.300 | **-20.067** | -19.700 | 0.013 | ≥10 | **pass** |
| | 100 kHz | -20.300 | **-20.025** | -19.700 | 0.022 | ≥10 | **pass** |
| *Channel 2* | 20 Hz | -20.300 | **-20.002** | -19.700 | 0.011 | ≥10 | **pass** |
| *100 kHz notch* | 20 kHz | -20.300 | **-20.029** | -19.700 | 0.011 | ≥10 | **pass** |
| | 50 kHz | -20.300 | **-20.217** | -19.700 | 0.011 | ≥10 | **pass** |
| | 200 kHz | -20.500 | **-20.187** | -19.500 | 0.045 | ≥10 | **pass** |
| | 300 kHz | -20.500 | **-20.056** | -19.500 | 0.063 | 7.9 | **pass** |
| **[22] Frequency Measurement Accuracy (uHz/Hz)** - *note 1* | | | | | | | |
| | 10 kHz | -3.00 | **-0.09** | 3.00 | 0.54 | 5.6 | **pass** |
| **[23] Input Residual Crosstalk at 20 kHz (dB) - non-accredited** | | | | | | | |
| *Ch2 into Ch 1* | | -999 | **-146.0** | -130.0 | 4.0 | na | **pass** |
| *Ch 1 into Ch 2* | | -999 | **-146.0** | -130.0 | 4.0 | na | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **NON-ACCREDITED ANALOG CHARACTERISTICS** | | | | | | | |
| **[24] Phase Measurement Offset (Deg), DC Coupled - non-accredited, self-test** | | | | | | | |
| *Ch1 - Ch 2* | 50Hz | -0.150 | **0.000** | 0.150 | 0.001 | na | **pass** |
| | 200Hz | -0.150 | **0.000** | 0.150 | 0.001 | na | **pass** |
| | 5kHz | -0.150 | **-0.001** | 0.150 | 0.004 | na | **pass** |
| | 20kHz | -0.600 | **-0.004** | 0.600 | 0.016 | na | **pass** |
| | 50kHz | -1.500 | **-0.011** | 1.500 | 0.040 | na | **pass** |
| **[25] Squarewave Risetime (usec)- non-accredited, oscilloscope referenced** | | | | | | | |
| | 5 kHz, 1 Vpk | 0.00 | **1.38** | 1.70 | 0.06 | na | **pass** |
| **[26] Squarewave Even Harmonic Content (dB) - non-accredited, self-test** | | | | | | | |
| | 20 Hz, 1 Vpk | -999 | **-127.0** | -100.0 | 4.0 | na | **pass** |
| | 5 kHz, 1 Vpk | -999 | **-117.6** | -100.0 | 2.0 | na | **pass** |
| | 20 kHz, 1 Vpk | -999 | **-101.8** | -90.0 | 1.0 | na | **pass** |
| **[27] DAC Sine THD+N (dB) - non-accredited, self-test** | | | | | | | |
| *Channel 1* | 20 Hz,26.6V,22k BW | -999 | **-112.6** | -105.0 | 1.5 | na | **pass** |
| *Balanced* | 1 kHz,26.6V,22k BW | -999 | **-112.0** | -105.0 | 1.5 | na | **pass** |
| | 5 kHz,26.6V,22k BW | -999 | **-110.6** | -105.0 | 1.5 | na | **pass** |
| | 20 kHz,26.6V,22k BW | -999 | **-113.1** | -105.0 | 1.5 | na | **pass** |
| *Unbalanced* | 20 Hz, 2V, 22k BW | -999 | **-112.7** | -105.0 | 2.0 | na | **pass** |
| | 1 kHz, 2V, 22k BW | -999 | **-111.9** | -105.0 | 2.0 | na | **pass** |
| | 20 kHz, 2V, 22k BW | -999 | **-113.7** | -105.0 | 1.5 | na | **pass** |
| | 1 kHz, 2V 80k BW | -999 | **-102.7** | -95.0 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 80k BW | -999 | **-101.1** | -95.0 | 1.5 | na | **pass** |
| *Channel 2* | 20 Hz,26.6V,22k BW | -999 | **-112.7** | -105.0 | 1.5 | na | **pass** |
| *Balanced* | 1 kHz,26.6V,22k BW | -999 | **-112.0** | -105.0 | 1.5 | na | **pass** |
| | 5 kHz,26.6V,22k BW | -999 | **-110.8** | -105.0 | 1.5 | na | **pass** |
| | 20 kHz,26.6V,22k BW | -999 | **-113.2** | -105.0 | 1.5 | na | **pass** |
| *Unbalanced* | 20 Hz, 2V, 22k BW | -999 | **-113.1** | -105.0 | 2.0 | na | **pass** |
| | 1 kHz, 2V, 22k BW | -999 | **-111.6** | -105.0 | 2.0 | na | **pass** |
| | 20 kHz, 2V, 22k BW | -999 | **-113.7** | -105.0 | 1.5 | na | **pass** |
| | 1 kHz, 2V 80k BW | -999 | **-102.7** | -95.0 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 80k BW | -999 | **-101.0** | -95.0 | 1.5 | na | **pass** |
| **[28] Analog Sine THD+N (dB) - non-accredited, self-test** | | | | | | | |
| *Channel 1* | 20 Hz,26.6V,22k BW | -999 | **-120.7** | -115.0 | 0.8 | na | **pass** |
| *Balanced* | 1 kHz,26.6V,22k BW | -999 | **-120.7** | -115.0 | 0.8 | na | **pass** |
| | 5 kHz,26.6V,22k BW | -999 | **-120.1** | -115.0 | 0.8 | na | **pass** |
| | 20 kHz,26.6V,22k BW | -999 | **-121.3** | -115.0 | 1.0 | na | **pass** |
| *Unbalanced* | 20 Hz, 2V, 22k BW | -999 | **-121.7** | -116.5 | 0.8 | na | **pass** |
| | 1 kHz, 2V, 22k BW | -999 | **-121.6** | -116.5 | 0.8 | na | **pass** |
| | 20 kHz, 2V, 22k BW | -999 | **-122.0** | -116.5 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 80k BW | -999 | **-116.3** | -110.5 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 100k BW | -999 | **-115.1** | -110.0 | 1.0 | na | **pass** |
| | 50 kHz, 2V, 250k BW | -999 | **-109.9** | -104.6 | 1.0 | na | **pass** |
| | 100 kHz, 2V, 500k BW | -999 | **-107.0** | -101.6 | 1.0 | na | **pass** |
| | 200 kHz, 2V, 1M BW | -999 | **-102.6** | -96.0 | 1.0 | na | **pass** |
| *Channel 2* | 20 Hz,26.6V,22k BW | -999 | **-120.8** | -115.0 | 0.8 | na | **pass** |
| *Balanced* | 1 kHz,26.6V,22k BW | -999 | **-120.6** | -115.0 | 0.8 | na | **pass** |
| | 5 kHz,26.6V,22k BW | -999 | **-119.7** | -115.0 | 0.8 | na | **pass** |
| | 20 kHz,26.6V,22k BW | -999 | **-121.0** | -115.0 | 1.0 | na | **pass** |
| *Unbalanced* | 20 Hz, 2V, 22k BW | -999 | **-121.6** | -116.5 | 0.8 | na | **pass** |
| | 1 kHz, 2V, 22k BW | -999 | **-121.6** | -116.5 | 0.8 | na | **pass** |
| | 20 kHz, 2V, 22k BW | -999 | **-122.3** | -116.5 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 80k BW | -999 | **-116.2** | -110.5 | 1.0 | na | **pass** |
| | 20 kHz, 2V, 100k BW | -999 | **-115.0** | -110.0 | 1.0 | na | **pass** |
| | 50 kHz, 2V, 250k BW | -999 | **-109.8** | -104.6 | 1.0 | na | **pass** |
| | 100 kHz, 2V, 500k BW | -999 | **-106.9** | -101.6 | 1.0 | na | **pass** |
| | 200 kHz, 2V, 1M BW | -999 | **-102.3** | -96.0 | 1.0 | na | **pass** |
| **[29] Residual Crosstalk (dB), Output Related, 20kHz - non-accredited, self-test** | | | | | | | |
| *Unbalanced,* | *2 into 1* | -999 | **-150.3** | -130.0 | 2.0 | na | **pass** |
| *13.3V, 20 kHz.* | *1 into 2* | -999 | **-148.5** | -130.0 | 2.0 | na | **pass** |
| *Balanced,* | *2 into 1* | -999 | **-162.5** | -130.0 | 4.0 | na | **pass** |
| *26.6V, 20 kHz.* | *1 into 2* | -999 | **-160.4** | -130.0 | 4.0 | na | **pass** |

| Item | Setting(s) | Lower Limit | READING | Upper Limit | MU | TUR | Result |
|---|---|---|---|---|---|---|---|
| **[30] Residual Noise (uVolts) - non-accredited, self-test** | | | | | | | |
| *Balanced Input,* | Ch 1, CCIR unwtd | 0 | **0.88** | 1.00 | 0.06 | na | **pass** |
| *inputs shorted.* | Ch 2, CCIR unwtd | 0 | **0.87** | 1.00 | 0.06 | na | **pass** |
| | Ch 1, 80 kHz BW | 0 | **1.69** | 2.00 | 0.08 | na | **pass** |
| | Ch 2, 80 kHz BW | 0 | **1.69** | 2.00 | 0.08 | na | **pass** |
| | Ch 1, 250 kHz BW | 0 | **3.81** | 8.00 | 0.80 | na | **pass** |
| | Ch 2, 250 kHz BW | 0 | **3.56** | 8.00 | 0.80 | na | **pass** |
| | Ch 1, 500 kHz BW | 0 | **5.36** | 10.30 | 0.80 | na | **pass** |
| | Ch 2, 500 kHz BW | 0 | **5.18** | 10.30 | 0.80 | na | **pass** |
| **[31] Residual SMPTE IMD (%), 4:1, 60Hz:7kHz - non-accredited, self-test** | | | | | | | |
| *Balanced,* | Ch 1 | 0% | **0.00023%** | 0.00100% | 0.00030% | na | **pass** |
| *26.66 Vrms.* | Ch 2 | 0% | **0.00026%** | 0.00100% | 0.00030% | na | **pass** |
| **[32] Residual MOD IMD (%), 4:1, 60Hz:7kHz, d2 + d3 - non-accredited, self-test** | | | | | | | |
| *Balanced,* | Ch 1 | 0% | **0.00013%** | 0.00080% | 0.00020% | na | **pass** |
| *26.66 Vrms.* | Ch 2 | 0% | **0.00016%** | 0.00080% | 0.00020% | na | **pass** |
| **[33] Residual DFD IMD (%), mean 19.5kHz, diff 1kHz - non-accredited, self-test** | | | | | | | |
| *Bal 26.66Vrms* | Ch 1 | 0% | **0.00004%** | 0.00032% | 0.00012% | na | **pass** |
| *d2+d3* | Ch 2 | 0% | **0.00004%** | 0.00032% | 0.00012% | na | **pass** |
| *Bal 26.66Vrms* | Ch 1 | 0% | **0.00003%** | 0.00018% | 0.00006% | na | **pass** |
| *d2 only* | Ch 2 | 0% | **0.00002%** | 0.00018% | 0.00006% | na | **pass** |
| **[34] Residual CCIF IMD (%), mean 12.5kHz, diff 1kHz - non-accredited, self-test** | | | | | | | |
| *Bal 26.66Vrms* | Ch 1 | 0% | **0.00004%** | 0.00036% | 0.00012% | na | **pass** |
| *d2 only* | Ch 2 | 0% | **0.00004%** | 0.00036% | 0.00012% | na | **pass** |
| **[35] Residual DIM IMD, DIM100 (%) - non-accredited, self-test** | | | | | | | |
| *Balanced,* | Ch 1 | 0% | **0.00084%** | 0.00180% | 0.00020% | na | **pass** |
| *26.66Vrms* | Ch 2 | 0% | **0.00085%** | 0.00180% | 0.00020% | na | **pass** |
| **AES/EBU DIGITAL I/O CHARACTERISTICS** | | | | | | | |
| **[36] Output Voltage Accuracy (Volts) - non-accredited, oscilloscope referenced** | | | | | | | |
| *balanced* | 8.00 Vpp | 7.12 | **7.89** | 8.88 | 0.13 | na | **pass** |
| | 0.800 Vpp | 0.640 | **0.791** | 0.960 | 0.014 | na | **pass** |
| *unbalanced* | 2.00 Vpp | 1.820 | **1.968** | 2.180 | 0.031 | na | **pass** |
| | 0.200 Vpp | 0.164 | **0.197** | 0.236 | 0.004 | na | **pass** |
| **[37] Input Voltage Measurement Accuracy (Volts) - non-accredited, oscilloscope referenced** | | | | | | | |
| *balanced* | 8.00 Vpp | 7.58 | **8.07** | 8.43 | 0.13 | na | **pass** |
| | 0.800 Vpp | 0.735 | **0.814** | 0.865 | 0.014 | na | **pass** |
| *unbalanced* | 2.00 Vpp | 1.894 | **2.027** | 2.106 | 0.031 | na | **pass** |
| | 0.200 Vpp | 0.184 | **0.203** | 0.216 | 0.004 | na | **pass** |
| **[38] Variable Rise Time Accuracy (nsec) - non-accredited, oscilloscope referenced** | | | | | | | |
| *unbalanced* | 25 nsec | 20.5 | **25.6** | 29.5 | 2.0 | na | **pass** |
| | 100 nsec | 88.0 | **99.4** | 112.0 | 3.0 | na | **pass** |
| **[39] Normal Mode Noise Amplitude (Volts) - non-accredited, oscilloscope referenced** | | | | | | | |
| *unbalanced* | 0.500 Vpp | 0.425 | **0.494** | 0.575 | 0.028 | na | **pass** |
| | 0.100 Vpp | 0.065 | **0.097** | 0.135 | 0.008 | na | **pass** |
| **[40] Common Mode Sine Amplitude (Volts)** - *note 2* | | | | | | | |
| *balanced* | 20.00 Vpp | 17.95 | **19.96** | 22.05 | 0.16 | ≥10 | **pass** |
| | 1.200 Vpp | 1.030 | **1.190** | 1.370 | 0.010 | ≥10 | **pass** |
| **[41] Jitter Amplitude Accuracy at 500 Hz (nsec) - non-accredited, self-test** | | | | | | | |
| *Generator* | 1159.82 | 1153.9 | **1159.7** | 1165.7 | 1.0 | na | **pass** |
| | 781.10 | 777.09 | **781.02** | 785.11 | 0.70 | na | **pass** |
| | 357.70 | 355.81 | **357.66** | 359.59 | 0.36 | na | **pass** |
| *Analyzer* | 1159.82 | 1043 | **1173** | 1277 | 15 | na | **pass** |
| *average reading* | 357.70 | 320.9 | **361.8** | 394.5 | 5.0 | na | **pass** |
| **[42] Jitter Flatness (dB) - non-accredited, self-test** | | | | | | | |
| | 100 Hz | -0.50 | **-0.03** | 0.50 | 0.10 | na | **pass** |
| | 200 Hz | -0.50 | **-0.02** | 0.50 | 0.06 | na | **pass** |
| | 1 kHz | -0.50 | **0.01** | 0.50 | 0.06 | na | **pass** |
| | 5 kHz | -0.50 | **0.01** | 0.50 | 0.06 | na | **pass** |
| | 20 kHz | -0.50 | **0.03** | 0.50 | 0.06 | na | **pass** |
| | 50 kHz | -0.50 | **0.08** | 0.50 | 0.06 | na | **pass** |
| **[43] Residual Jitter, 700 Hz - 100 kHz BW (psec, pk) - non-accredited, self-test** | | | | | | | |
| | 48k sample rate | 0 | **252** | 600 | 120 | na | **pass** |
| | 96k sample rate | 0 | **263** | 600 | 120 | na | **pass** |
| | 192k sample rate | 0 | **305** | 600 | 120 | na | **pass** |



**END OF REPORT**