



CALIBRATION LABORATORY
 1-6, Yaesu 1-chome
 Chuo-ku, Tokyo
 Japan



Sample Calibration Report

Report Number: Sample

Model: 2722-192K
Serial Number: Sample

Data Type: AS RECEIVED
Date of Cal: 12-Jul-2007

Program:
 S2FamilyCal-apc.apb 1.05

Option Status

BUR	Installed
IMD	Not Installed
WFA	Not Installed
EURZ	Not Installed
S-AES17	Installed
OPT-2020	Not Installed

Internal Module Status and Data

AP Name	Type	Serial No.	Revision
GEN	Hi-Perf	Sample	012
IMP	Hi-Perf	Sample	001
AN	Hi-Perf	Sample	005
DSF	Hi-Perf	Sample	008
DIO	192k	Sample	103

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, and statistical data of repeatability which may include inter-lab comparisons and/or other information. These are based on a coverage factor of 2 (k=2) corresponding to a confidence level of 95%.

"TUR" - The column labeled **"TUR"** lists the test uncertainty ratio calculated by dividing the lesser of the lower and upper reading tolerances by the 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 expanded measurement uncertainty or **"MU"**. The confidence level is 95% or higher the observed characteristic is within specification.

pass (<95%) -- 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 expanded measurement uncertainty or **"MU"**. Conformance to specification is more probable than not, however the confidence level may be <95%.

>> FAIL << -- The observed characteristic is out of specification.

This report is valid only when accompanied by a signed Certificate of Calibration.

File name: Sys2MReport-apc.xls

File version: REV1.04-25JUN2007-SR

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result	
ANALOG GENERATOR CHARACTERISTICS								
[1] Sine Frequency Accuracy (Hz)								
Fast Mode	10 Hz	9.9500	9.9914	10.0500	0.0020	>10	pass	
	100 Hz	99.500	99.974	100.500	0.020	>10	pass	
	1 kHz	995.00	999.81	1005.00	0.20	>10	pass	
	10 kHz	9950.0	10000.5	10050.0	2.0	>10	pass	
	100 kHz	99500	100010	100500	30	>10	pass	
	200 kHz	199000	200161	201000	60	>10	pass	
High-Acc Mode	10 Hz	9.99700	10.00046	10.00300	0.00060	5.0	pass	
	100 Hz	99.9700	100.0011	100.0300	0.0060	5.0	pass	
	1 kHz	999.700	1000.010	1000.300	0.060	5.0	pass	
	10 kHz	9997.00	10000.14	10003.00	0.60	5.0	pass	
	100 kHz	99970.0	100002.2	100030.0	6.0	5.0	pass	
	200 kHz	199940	200001.1	200060	12	5.0	pass	
[2] Sine (D/A) Frequency Accuracy (Hz)								
	10 kHz	9999.9800	10000.000	10000.0200	0.0063	3.2	pass	
[3] Sine Amplitude Accuracy (Volts, mVolts)								
Channel A	10.00 V	9.9300	10.0058	10.0700	0.0041	>10	pass	
	5.000 V	4.9650	5.0017	5.0350	0.0021	>10	pass	
	2.500 V	2.4825	2.5014	2.5175	0.0011	>10	pass	
	1.200 V	1.1916	1.1998	1.2084	0.0017	4.9	pass	
	600 mV	595.80	600.30	604.20	0.84	5.0	pass	
	300 mV	297.90	299.72	302.10	0.42	5.0	pass	
	150 mV	148.95	149.89	151.05	0.21	5.0	pass	
	80 mV	79.44	79.939	80.56	0.11	5.1	pass	
	40 mV	39.720	39.978	40.280	0.056	5.0	pass	
	20 mV	19.860	20.017	20.140	0.028	5.0	pass	
Channel B	10.00 V	9.9300	10.0079	10.0700	0.0041	>10	pass	
	5.000 V	4.9650	5.0029	5.0350	0.0021	>10	pass	
	2.500 V	2.4825	2.5011	2.5175	0.0011	>10	pass	
	1.200 V	1.1916	1.2026	1.2084	0.0017	4.9	pass	
	600 mV	595.80	601.20	604.20	0.84	5.0	pass	
	300 mV	297.90	300.26	302.10	0.42	5.0	pass	
	150 mV	148.95	150.11	151.05	0.21	5.0	pass	
	80 mV	79.44	80.186	80.56	0.11	5.1	pass	
	40 mV	39.720	40.088	40.280	0.056	5.0	pass	
	20 mV	19.860	20.046	20.140	0.028	5.0	pass	
Channel B	10 mV	9.930	10.022	10.070	0.014	5.0	pass	
	[4] Sine (D/A) Amplitude Accuracy (Volts)							
	Channel A	2.500 V	2.4825	2.5016	2.5175	0.0020	8.8	pass
	Channel B	2.500 V	2.4825	2.5016	2.5175	0.0020	8.8	pass
	[5] Sine Flatness (dB)							
	Channel A	10 Hz	-0.0080	0.0052	0.0080	0.0017	4.7	pass
		20 Hz	-0.0080	0.0023	0.0080	0.0016	5.0	pass
		50 Hz	-0.0080	0.0006	0.0080	0.0014	5.7	pass
		10 kHz	-0.0080	0.0006	0.0080	0.0019	4.2	pass
		20 kHz	-0.0080	0.0001	0.0080	0.0019	4.2	pass
50 kHz		-0.0300	0.0028	0.0300	0.0033	9.1	pass	
100 kHz		-0.1000	0.0079	0.1000	0.0095	>10	pass	
200 kHz		-0.300	0.1704	0.200	0.027	7.4	pass	
Channel B	10 Hz	-0.0080	0.0043	0.0080	0.0017	4.7	pass	
	20 Hz	-0.0080	0.0017	0.0080	0.0016	5.0	pass	
	50 Hz	-0.0080	0.0005	0.0080	0.0014	5.7	pass	
	10 kHz	-0.0080	0.0006	0.0080	0.0019	4.2	pass	
	20 kHz	-0.0080	0.0001	0.0080	0.0019	4.2	pass	
	50 kHz	-0.0300	0.0029	0.0300	0.0033	9.1	pass	
	100 kHz	-0.1000	0.0089	0.1000	0.0095	>10	pass	
	200 kHz	-0.300	0.0741	0.200	0.027	7.4	pass	

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result	
ANALOG GENERATOR, continued								
[6] Sine (D/A) Flatness (dB)								
Channel A	10 Hz	-0.0300	0.0001	0.0300	0.0019	>10	pass	
	20 Hz	-0.0100	-0.0001	0.0100	0.0019	5.3	pass	
	10 kHz	-0.0100	-0.0019	0.0100	0.0021	4.8	pass	
	20 kHz	-0.0100	0.0002	0.0100	0.0020	5.0	pass	
	30 kHz	-0.0300	0.0088	0.0300	0.0037	8.1	pass	
Channel B	50 kHz	-0.1000	0.0199	0.1000	0.0086	>10	pass	
	10 Hz	-0.0300	-0.0002	0.0300	0.0019	>10	pass	
	20 Hz	-0.0100	-0.0005	0.0100	0.0019	5.3	pass	
	10 kHz	-0.0100	-0.0027	0.0100	0.0021	4.8	pass	
	20 kHz	-0.0100	-0.0022	0.0100	0.0021	4.8	pass	
Channel B	30 kHz	-0.0300	0.0049	0.0300	0.0037	8.1	pass	
	50 kHz	-0.1000	0.0076	0.1000	0.0086	>10	pass	
	[7] Sine THD+N (%) - self-test							
	Channel A	20 Hz, 26.6V, 22k BW	0%	0.00054%	0.00200%	0.00020%	na	pass
		30 Hz, 26.6V, 22k BW	0%	0.00019%	0.00032%	0.00006%	na	pass
1 kHz, 26.6V, 22k BW		0%	0.00020%	0.00032%	0.00002%	na	pass	
5 kHz, 26.6V, 22k BW		0%	0.00019%	0.00032%	0.00002%	na	pass	
1 kHz, 26.6V, 80k BW		0%	0.00028%	0.00050%	0.00002%	na	pass	
20 kHz, 26.6V, 80k BW		0%	0.00029%	0.00050%	0.00002%	na	pass	
10 Hz, 13.3V, 500k BW		0%	0.00066%	0.00400%	0.00050%	na	pass	
20 Hz, 13.3V, 500k BW		0%	0.00042%	0.00100%	0.00020%	na	pass	
20 kHz, 13.3V, 500k BW		0%	0.00054%	0.00100%	0.00010%	na	pass	
100kHz, 13.3V, 500k BW		0%	0.00090%	0.00400%	0.00010%	na	pass	
Channel B	20 Hz, 26.6V, 22k BW	0%	0.00044%	0.00200%	0.00020%	na	pass	
	30 Hz, 26.6V, 22k BW	0%	0.00021%	0.00032%	0.00006%	na	pass	
	1 kHz, 26.6V, 22k BW	0%	0.00020%	0.00032%	0.00002%	na	pass	
	5 kHz, 26.6V, 22k BW	0%	0.00019%	0.00032%	0.00002%	na	pass	
	1 kHz, 26.6V, 80k BW	0%	0.00028%	0.00050%	0.00002%	na	pass	
	20 kHz, 26.6V, 80k BW	0%	0.00028%	0.00050%	0.00002%	na	pass	
	10 Hz, 13.3V, 500k BW	0%	0.00071%	0.00400%	0.00050%	na	pass	
	20 Hz, 13.3V, 500k BW	0%	0.00052%	0.00100%	0.00020%	na	pass	
	20 kHz, 13.3V, 500k BW	0%	0.00055%	0.00100%	0.00010%	na	pass	
	100kHz, 13.3V, 500k BW	0%	0.00097%	0.00400%	0.00010%	na	pass	
[8] Sine (D/A) THD+N (%) - self-test								
Channel A	20 Hz	0%	0.00041%	0.00070%	0.00010%	na	pass	
	1 kHz	0%	0.00034%	0.00070%	0.00002%	na	pass	
	5 kHz	0%	0.00038%	0.00070%	0.00002%	na	pass	
Channel B	20 kHz	0%	0.00027%	0.00070%	0.00002%	na	pass	
	20 Hz	0%	0.00051%	0.00070%	0.00010%	na	pass	
	1 kHz	0%	0.00041%	0.00070%	0.00002%	na	pass	
	5 kHz	0%	0.00045%	0.00070%	0.00002%	na	pass	
Channel B	20 kHz	0%	0.00025%	0.00070%	0.00002%	na	pass	
	20 kHz	0%	0.00025%	0.00070%	0.00002%	na	pass	
[9] Output Crosstalk (dB) - self-test								
Ch B into Ch A	20 kHz	-999	-124.13	-120.0	1.4	na	pass	
	100 kHz	-999	-116.95	-106.0	1.4	na	pass	
Ch A into Ch B	20 kHz	-999	-137.42	-120.0	1.4	na	pass	
	100 kHz	-999	-129.97	-106.0	1.4	na	pass	
[10] Source Resistance Accuracy (Ω)								
Channel A	40 Ω Bal	39.000	40.65	41.000	0.020	>10	pass	
	150 Ω Bal	148.500	150.79	151.500	0.040	>10	pass	
	600 Ω Bal	597.00	600.93	603.00	0.12	>10	pass	
	20 Ω Unbal	19.000	20.52	21.000	0.010	>10	pass	
	600 Ω Unbal	597.00	600.37	603.00	0.12	>10	pass	
Channel B	40 Ω Bal	39.000	40.64	41.000	0.020	>10	pass	
	150 Ω Bal	148.500	150.73	151.500	0.040	>10	pass	
	600 Ω Bal	597.00	600.70	603.00	0.12	>10	pass	
	20 Ω Unbal	19.000	20.50	21.000	0.010	>10	pass	
	600 Ω Unbal	597.00	600.26	603.00	0.12	>10	pass	

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
ANALOG ANALYZER CHARACTERISTICS							
[11] Input Termination Accuracy (Ω)							
Channel A	600 Ω	594.00	601.17	606.00	0.12	>10	pass
	300 Ω	297.000	301.50	303.000	0.060	>10	pass
Channel B	600 Ω	594.00	602.14	606.00	0.12	>10	pass
	300 Ω	297.000	300.75	303.000	0.060	>10	pass
[12] Input Common Mode Rejection (dB)							
Channel A	2.5V range, 10 Hz	-999	-108.96	-80.0	5.0	na	pass
	2.5V range, 1 kHz	-999	-111.91	-80.0	5.0	na	pass
	2.5V range, 20 kHz	-999	-91.68	-80.0	5.0	na	pass
	10V range, 1kHz	-999	-94.98	-65.0	2.0	na	pass
	10V range, 20 kHz	-999	-74.59	-65.0	2.0	na	pass
	40V range, 1kHz	-999	-71.36	-50.0	2.0	na	pass
Channel B	160V range, 1kHz	-999	-63.57	-50.0	2.0	na	pass
	2.5V range, 10 Hz	-999	-109.39	-80.0	5.0	na	pass
	2.5V range, 1 kHz	-999	-106.10	-80.0	5.0	na	pass
	2.5V range, 20 kHz	-999	-103.35	-80.0	5.0	na	pass
	10V range, 1kHz	-999	-84.96	-65.0	2.0	na	pass
	10V range, 20 kHz	-999	-75.08	-65.0	2.0	na	pass
Channel B	40V range, 1kHz	-999	-69.60	-50.0	2.0	na	pass
	160V range, 1kHz	-999	-67.81	-50.0	2.0	na	pass
[13] Input Residual Crosstalk (dB)							
Ch B into Ch A	20 kHz	-999	-145.29	-140.0	1.1	na	pass
	100 kHz	-999	-131.91	-126.0	1.1	na	pass
Ch A into Ch B	20 kHz	-999	-155.58	-140.0	1.1	na	pass
	100 kHz	-999	-141.28	-126.0	1.1	na	pass
[14] Level Meter Accuracy (Volts, mVolts)							
Channel A	120 V	119.400	119.98	120.600	0.052	>10	pass
	60 V	59.700	59.980	60.300	0.026	>10	pass
	30 V	29.850	29.983	30.150	0.013	>10	pass
	16 V	15.9200	15.990	16.0800	0.0068	>10	pass
	8 V	7.9600	7.9953	8.0400	0.0035	>10	pass
	4 V	3.9800	3.9971	4.0200	0.0019	>10	pass
	2 V	1.99000	1.9988	2.01000	0.00085	>10	pass
	1 V	0.99500	0.9993	1.00500	0.00043	>10	pass
	500 mV	497.50	499.59	502.50	0.23	>10	pass
	240 mV	238.80	239.75	241.20	0.10	>10	pass
	120 mV	119.400	119.86	120.600	0.052	>10	pass
	60 mV	59.700	59.938	60.300	0.027	>10	pass
	30 mV	29.850	29.967	30.150	0.014	>10	pass
	5 mV	4.9750	4.9986	5.0250	0.0032	7.8	pass
Channel B	120 V	119.400	119.93	120.600	0.052	>10	pass
	60 V	59.700	59.960	60.300	0.026	>10	pass
	30 V	29.850	29.993	30.150	0.013	>10	pass
	16 V	15.9200	15.995	16.0800	0.0068	>10	pass
	8 V	7.9600	7.9960	8.0400	0.0035	>10	pass
	4 V	3.9800	3.9975	4.0200	0.0019	>10	pass
	2 V	1.99000	1.9989	2.01000	0.00085	>10	pass
	1 V	0.99500	0.9994	1.00500	0.00043	>10	pass
	500 mV	497.50	499.64	502.50	0.23	>10	pass
	240 mV	238.80	239.76	241.20	0.10	>10	pass
	120 mV	119.400	119.87	120.600	0.052	>10	pass
	60 mV	59.700	59.938	60.300	0.027	>10	pass
	30 mV	29.850	29.966	30.150	0.014	>10	pass
	5 mV	4.9750	4.9976	5.0250	0.0032	7.8	pass

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
ANALOG ANALYZER, continued							
[15] Level Meter Flatness (dB)							
Channel A	10 Hz	-0.1000	-0.014	0.1000	0.0028	>10	pass
	15 Hz	-0.0300	-0.004	0.0300	0.0026	>10	pass
	20 Hz	-0.0080	-0.003	0.0080	0.0026	3.1	pass
	50 Hz	-0.0080	-0.001	0.0080	0.0018	4.4	pass
	20 kHz	-0.0080	-0.002	0.0080	0.0020	4.0	pass
	50 kHz	-0.0300	-0.009	0.0300	0.0027	>10	pass
	100 kHz	-0.1000	-0.029	0.1000	0.0055	>10	pass
Channel B	500 kHz	-0.500	0.009	0.200	0.027	7.4	pass
	10 Hz	-0.1000	-0.014	0.1000	0.0028	>10	pass
	15 Hz	-0.0300	-0.004	0.0300	0.0026	>10	pass
	20 Hz	-0.0080	-0.003	0.0080	0.0026	3.1	pass
	50 Hz	-0.0080	-0.001	0.0080	0.0018	4.4	pass
	20 kHz	-0.0080	-0.001	0.0080	0.0020	4.0	pass
	50 kHz	-0.0300	-0.008	0.0300	0.0027	>10	pass
[16] Amplitude Meter Accuracy (Volts, mVolts)							
Channel A	2.000 V	1.9800	2.000	2.0200	0.0012	>10	pass
	500 mV	495.00	499.0	505.00	0.32	>10	pass
	120 mV	118.800	119.8	121.200	0.075	>10	pass
	30 mV	29.700	29.95	30.300	0.020	>10	pass
	8.0 mV	7.9200	7.991	8.0800	0.0051	>10	pass
	2.0 mV	1.9800	1.996	2.0200	0.0017	>10	pass
	Channel B	2.000 V	1.9800	1.999	2.0200	0.0012	>10
500 mV		495.00	498.9	505.00	0.32	>10	pass
120 mV		118.800	119.8	121.200	0.075	>10	pass
30 mV		29.700	29.95	30.300	0.020	>10	pass
8.0 mV		7.9200	7.991	8.0800	0.0051	>10	pass
2.0 mV		1.9800	1.996	2.0200	0.0017	>10	pass
[17] Amplitude Meter Flatness (dB)							
2.000 Vrms	15 Hz	-0.0500	-0.027	0.0500	0.0028	>10	pass
	20 Hz	-0.0200	-0.007	0.0200	0.0027	7.4	pass
	20 kHz	-0.0200	0.000	0.0200	0.0021	9.5	pass
	50 kHz	-0.0500	-0.008	0.0500	0.0027	>10	pass
	100 kHz	-0.1500	-0.032	0.1500	0.0055	>10	pass
	200 kHz	-0.300	-0.142	0.200	0.019	>10	pass
120 mVrms	15 Hz	-0.0500	-0.027	0.0500	0.0043	>10	pass
	20 Hz	-0.0200	-0.007	0.0200	0.0042	4.8	pass
	20 kHz	-0.0200	0.001	0.0200	0.0022	9.1	pass
	50 kHz	-0.0500	-0.008	0.0500	0.0033	>10	pass
	100 kHz	-0.1500	-0.035	0.1500	0.0076	>10	pass
	200 kHz	-0.300	-0.161	0.200	0.018	>10	pass
8 mVrms	15 Hz	-0.0500	-0.026	0.0500	0.0029	>10	pass
	20 Hz	-0.0200	-0.006	0.0200	0.0024	8.3	pass
	20 kHz	-0.0200	0.000	0.0200	0.0021	9.5	pass
	50 kHz	-0.0500	-0.016	0.0500	0.0028	>10	pass
	100 kHz	-0.1500	0.017	0.1500	0.0059	>10	pass
	200 kHz	-0.300	-0.202	0.200	0.010	>10	pass

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
ANALOG ANALYZER, continued							
[18] Bandreject & THD+N Accuracy (dBV)							
20 Hz notch	40 Hz	-0.300	-0.018	0.300	0.010	>10	pass
	60 Hz	-0.300	0.061	0.300	0.010	>10	pass
	20 kHz	-0.300	0.047	0.300	0.010	>10	pass
	120 kHz	-0.300	-0.007	0.300	0.021	>10	pass
1 kHz notch	20 Hz	-0.300	0.037	0.300	0.010	>10	pass
	500 Hz	-0.300	-0.049	0.300	0.010	>10	pass
	2.0 kHz	-0.300	-0.033	0.300	0.010	>10	pass
	3.0 kHz	-0.300	0.057	0.300	0.010	>10	pass
	20 kHz	-0.300	0.046	0.300	0.010	>10	pass
20 kHz notch	120 kHz	-0.300	-0.009	0.300	0.021	>10	pass
	20 Hz	-0.300	0.036	0.300	0.010	>10	pass
	10 kHz	-0.300	-0.062	0.300	0.010	>10	pass
	40 kHz	-0.300	-0.044	0.300	0.010	>10	pass
	60 kHz	-0.300	0.037	0.300	0.011	>10	pass
100 kHz notch	120 kHz	-0.300	0.011	0.300	0.021	>10	pass
	20 Hz	-0.300	0.037	0.300	0.010	>10	pass
	20 kHz	-0.300	0.052	0.300	0.010	>10	pass
	50 kHz	-0.300	-0.087	0.300	0.010	>10	pass
[19] Bandpass Accuracy (dBV)							
20 Hz	19.60 Hz BP	-0.300	-0.064	0.300	0.010	>10	pass
	20.00 Hz BP	-0.300	0.027	0.300	0.010	>10	pass
	20.40 Hz BP	-0.300	-0.032	0.300	0.010	>10	pass
1 kHz	0.980 kHz BP	-0.300	-0.090	0.300	0.010	>10	pass
	1.000 kHz BP	-0.300	0.032	0.300	0.010	>10	pass
	1.020 kHz BP	-0.300	-0.001	0.300	0.010	>10	pass
20 kHz	19.60 kHz BP	-0.300	-0.098	0.300	0.010	>10	pass
	20.00 kHz BP	-0.300	-0.032	0.300	0.010	>10	pass
	20.40 kHz BP	-0.300	-0.113	0.300	0.010	>10	pass
100 kHz	98.0 kHz BP	-0.300	-0.145	0.300	0.021	>10	pass
	100.0 kHz BP	-0.300	-0.097	0.300	0.021	>10	pass
	102.0 kHz BP	-0.300	-0.159	0.300	0.021	>10	pass
[20] Bandwidth Limiting Filters (dB)							
22 Hz Highpass	22.4 Hz	-6.000	-1.627	0.000	0.020	na	pass
	31.5 Hz	-0.500	-0.202	0.500	0.020	>10	pass
	50 Hz	-0.500	0.003	0.500	0.010	>10	pass
100 Hz Highpass	95 Hz	-999	-3.818	-3.000	0.030	na	pass
	105 Hz	-3.000	-2.484	0.000	0.030	na	pass
400 Hz Highpass	380 Hz	-999	-3.745	-3.000	0.010	na	pass
	420 Hz	-3.000	-2.430	0.000	0.010	na	pass
22 kHz Lowpass	5 kHz	-0.500	0.002	0.500	0.010	>10	pass
	16 kHz	-0.500	0.015	0.500	0.010	>10	pass
	22.4 kHz	-6.000	-2.771	0.000	0.010	na	pass
30 kHz Lowpass	28.5 kHz	-3.000	-2.243	0.000	0.010	na	pass
	31.5 kHz	-999	-3.521	-3.000	0.010	na	pass
80 kHz Lowpass	76 kHz	-3.000	-2.282	0.000	0.011	na	pass
	84 kHz	-999	-3.470	-3.000	0.011	na	pass

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
ANALOG ANALYZER, continued							
[21] Residual Noise (uVolts) - self-test							
Channel A	22-22k BW	0	0.83	1.00	0.04	na	pass
	10-80k BW	0	1.53	2.00	0.04	na	pass
	Full BW	0	3.93	6.00	0.04	na	pass
	5 kHz bandpass	0	0.20	0.25	0.02	na	pass
	20 kHz bandpass	0	0.36	0.50	0.02	na	pass
	200 kHz bandpass	0	1.04	1.50	0.02	na	pass
Channel B	22-22k BW	0	0.80	1.00	0.04	na	pass
	10-80k BW	0	1.52	2.00	0.04	na	pass
	Full BW	0	3.93	6.00	0.04	na	pass
	5 kHz bandpass	0	0.19	0.25	0.02	na	pass
	20 kHz bandpass	0	0.37	0.50	0.02	na	pass
	200 kHz bandpass	0	1.05	1.50	0.02	na	pass
[22] Residual THD+N (%) - self-test							
Channel A	20 Hz, 1.5V, 22k BW	0%	0.00018%	0.00032%	0.00002%	na	pass
	1 kHz, 1.5V, 22k BW	0%	0.00017%	0.00025%	0.00002%	na	pass
	5 kHz, 1.5V, 22k BW	0%	0.00021%	0.00032%	0.00002%	na	pass
	20 kHz, 1.5V, 22k BW	0%	0.00019%	0.00032%	0.00002%	na	pass
	1 kHz, 1.5V, 80k BW	0%	0.00028%	0.00050%	0.00002%	na	pass
	20 kHz, 1.5V, 80k BW	0%	0.00031%	0.00050%	0.00002%	na	pass
	1 kHz, 1.5V, 500k BW	0%	0.00053%	0.00100%	0.00002%	na	pass
	20 kHz, 1.5V, 500k BW	0%	0.00057%	0.00100%	0.00002%	na	pass
	50 kHz, 1.5V, 500k BW	0%	0.00077%	0.00400%	0.00003%	na	pass
	100 kHz, 1.5V, 500k BW	0%	0.00115%	0.00400%	0.00006%	na	pass
Channel B	20 Hz, 1.5V, 22k BW	0%	0.00018%	0.00032%	0.00002%	na	pass
	1 kHz, 1.5V, 22k BW	0%	0.00016%	0.00025%	0.00002%	na	pass
	5 kHz, 1.5V, 22k BW	0%	0.00020%	0.00032%	0.00002%	na	pass
	20 kHz, 1.5V, 22k BW	0%	0.00018%	0.00032%	0.00002%	na	pass
	1 kHz, 1.5V, 80k BW	0%	0.00027%	0.00050%	0.00002%	na	pass
	20 kHz, 1.5V, 80k BW	0%	0.00031%	0.00050%	0.00002%	na	pass
	1 kHz, 1.5V, 500k BW	0%	0.00054%	0.00100%	0.00002%	na	pass
	20 kHz, 1.5V, 500k BW	0%	0.00058%	0.00100%	0.00002%	na	pass
	50 kHz, 1.5V, 500k BW	0%	0.00078%	0.00400%	0.00003%	na	pass
	100 kHz, 1.5V, 500k BW	0%	0.00136%	0.00400%	0.00006%	na	pass
[23] Phase Measurement Offset (Deg)							
	10 Hz, dc coupled	-0.50	0.01	0.50	0.060	8.3	pass
	10 Hz, ac coupled	-0.50	-0.06	0.50	0.060	8.3	pass
	1 kHz	-0.50	-0.02	0.50	0.060	8.3	pass
	5 kHz	-0.50	-0.03	0.50	0.060	8.3	pass
	20 kHz	-1.00	-0.09	1.00	0.060	>10	pass
	50 kHz	-2.00	-0.26	2.00	0.060	>10	pass
[24] Frequency Measurement Accuracy (µHz/Hz)							
	20 kHz	-6.0	-0.34	6.0	1.0	6.0	pass
[25] High Resolution A/D Distortion (dB) - self-test							
Channel A	5 kHz	-999	-114.7	-105.0	1.0	na	pass
Channel B	5 kHz	-999	-114.6	-105.0	1.0	na	pass
[26] High Bandwidth A/D Distortion (dB) - self-test							
Channel A	20 kHz	-999	-100.0	-90.0	1.0	na	pass
Channel B	20 kHz	-999	-100.8	-90.0	1.0	na	pass

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
OPTION "BUR" RELATED							
[27] Burst OFF Ratio Accuracy (dB)							
	0 dB	-0.300	-0.003	0.300	0.020	>10	pass
	-10 dB	-10.300	-9.961	-9.700	0.020	>10	pass
	-20 dB	-20.300	-20.001	-19.700	0.020	>10	pass
	-40 dB	-40.300	-40.074	-39.700	0.020	>10	pass
	-60 dB	-60.300	-60.044	-59.700	0.042	7	pass
[28] Squarewave Amplitude Accuracy (Volts)							
	1.000V, 100Hz	1.3859	1.4147	1.4425	0.0024	>10	pass

OPTION "IMD" RELATED			>> Not Installed				
[29] IMD Signal Amplitude Accuracy (Volts)							
	SMPTE 4:1,100/7k,1V						
	SMPTE 1:1,100/7k,1V						
	DFD, 14k/15k, 1V						
	DIM-100, 1V						
[30] SMPTE LF Tone Accuracy (Hz)							
	40 Hz						
	50 Hz						
	60 Hz						
	70 Hz						
	100 Hz						
	125 Hz						
	250 Hz						
	500 Hz						
[31] DIM Squarewave Accuracy (Hz)							
	DIM-100 (3.15 kHz)						
	DIM-B (2.96 kHz)						
[32] IMD Measurement Accuracy (dB) - self-test							
	SMPTE, -60 dB						
	DFD, -60 dB						
	DIM, -60 dB u4						
	DIM, -60 dB u5						
[33] Residual IMD (%) - self-test							
<i>Channel A</i>	SMPTE 4:1,60/7k,26V						
	SMPTE 4:1,60/7k,1V						
	SMPTE 4:1,60/7k,0.2V						
	DFD, 14k/15k, 26V						
	DFD, 14k/15k, 1V						
	DFD, 14k/15k, 0.2V						
	DIM-100, 26V						
	DIM-100, 1V						
	DIM-100, 0.2V						
<i>Channel B</i>	SMPTE 4:1,60/7k,26V						
	SMPTE 4:1,60/7k,1V						
	SMPTE 4:1,60/7k,0.2V						
	DFD, 14k/15k, 26V						
	DFD, 14k/15k, 1V						
	DFD, 14k/15k, 0.2V						
	DIM-100, 26V						
	DIM-100, 1V						
	DIM-100, 0.2V						

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
OPTION "W&F" RELATED				>> Not Installed			
[34] W&F Measurement Accuracy (%) - self-test							
IEC	1.000% peak						
NAB/JIS	0.7071% rms						
[35] Residual Wow & Flutter (%) - self-test							
IEC	Weighted						
	Unweighted						
NAB	Weighted						
	Unweighted						
SCRAPE	12.5 kHz tone						

OPTION "S-AES17" RELATED							
[36] Option Response (dB)							
20 kHz Pre-Filter	1 kHz	-0.100	-0.021	0.100	0.010	10	pass
	15 kHz	-0.100	-0.020	0.100	0.010	10	pass
	20 kHz	-0.100	-0.058	0.100	0.010	10	pass
	25 kHz	-4.000	-2.935	-2.000	0.010	na	pass
40 kHz Pre-Filter	1 kHz	-0.100	0.019	0.100	0.010	10	pass
	30 kHz	-0.100	0.021	0.100	0.010	10	pass
	40 kHz	-0.100	-0.008	0.100	0.010	10	pass
	50 kHz	-4.000	-2.785	-2.000	0.010	na	pass
20 kHz AES17 mode	20 Hz	-0.100	-0.028	0.100	0.010	10	pass
	10 kHz	-0.100	-0.009	0.100	0.010	10	pass
	15 kHz	-0.100	-0.026	0.100	0.010	10	pass
	20 kHz	-0.100	-0.065	0.100	0.010	10	pass
	24 kHz	-999	-62.130	-60.00	0.40	na	pass
	27 kHz	-999	-62.360	-60.00	0.40	na	pass
	200 kHz	-999	-70.213	-60.00	0.40	na	pass
40 kHz AES17 mode	20 Hz	-0.100	0.007	0.100	0.010	10	pass
	20 kHz	-0.100	0.023	0.100	0.010	10	pass
	30 kHz	-0.100	0.012	0.100	0.010	10	pass
	40 kHz	-0.100	-0.021	0.100	0.010	10	pass
	48 kHz	-999	-60.780	-60.00	0.40	na	pass
	54 kHz	-999	-61.290	-60.00	0.40	na	pass
200 kHz	-999	-62.077	-60.00	0.40	na	pass	
[37] Option Residual THD+N (%) - self-test							
20 kHz AES17 mode	8 V	0%	0.00023%	0.00030%	0.00002%	na	pass
	50 mV	0%	0.00172%	0.00200%	0.00008%	na	pass
40 kHz AES17 mode	8 V	0%	0.00036%	0.00040%	0.00002%	na	pass
	50 mV	0%	0.00247%	0.00280%	0.00008%	na	pass

OPTION "OPT-2020" RELATED							
>> Not Installed							
[36A] Option Response (dB)							
20 kHz AES17 mode	20 Hz						
	10 kHz						
	15 kHz						
	20 kHz						
	24 kHz						
	27 kHz						
	200 kHz						
[37A] Option Residual THD+N (%) - self-test							
20 kHz AES17 mode	8 V						
	50 mV						

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
AES/EBU DIGITAL I/O CHARACTERISTICS							
[38] Output Voltage Accuracy (Volts) - oscilloscope referenced							
Output I, balanced	8.00 Vpp	7.200	7.781	8.800	0.098	na	pass
	0.800 Vpp	0.640	0.782	0.960	0.010	na	pass
Output II, balanced	8.00 Vpp	7.200	7.781	8.800	0.098	na	pass
	0.800 Vpp	0.640	0.786	0.960	0.010	na	pass
Output I, unbal	2.00 Vpp	1.840	1.990	2.160	0.027	na	pass
	0.200 Vpp	0.164	0.195	0.236	0.003	na	pass
Output II, unbal	2.00 Vpp	1.840	1.990	2.160	0.027	na	pass
	0.200 Vpp	0.164	0.196	0.236	0.003	na	pass
[39] Input Voltage Measurement Accuracy (Volts) - oscilloscope referenced							
Input I, balanced	8.00 Vpp	7.600	8.126	8.400	0.098	na	pass
	0.800 Vpp	0.735	0.825	0.865	0.010	na	pass
Input II, balanced	8.00 Vpp	7.600	8.135	8.400	0.098	na	pass
	0.800 Vpp	0.735	0.824	0.865	0.010	na	pass
Input I, unbal	2.00 Vpp	1.990	1.999	2.100	0.027	na	pass
	0.200 Vpp	0.184	0.208	0.216	0.003	na	pass
Input II, unbal	2.00 Vpp	1.990	1.998	2.100	0.027	na	pass
	0.200 Vpp	0.184	0.207	0.216	0.003	na	pass
[40] Variable Rise Time Accuracy (nsec) - oscilloscope referenced							
Output I	25 nsec	20.0	24.6	30.0	1.0	na	pass
	100 nsec	80.0	104.9	120.0	2.0	na	pass
Output II	25 nsec	20.0	24.4	30.0	1.0	na	pass
	100 nsec	80.0	104.7	120.0	2.0	na	pass
[41] Normal Mode Noise Amplitude (Volts) - oscilloscope referenced							
Output I, unbal	0.500 Vpp	0.450	0.481	0.550	0.014	na	pass
	0.100 Vpp	0.075	0.096	0.125	0.008	na	pass
Output II, unbal	0.500 Vpp	0.450	0.483	0.550	0.014	na	pass
	0.100 Vpp	0.075	0.097	0.125	0.008	na	pass
[42] Common Mode Sine Amplitude (Volts)							
Output I, balanced	20.00 Vpp	18.00	20.02	22.00	0.16	>10	pass
	1.200 Vpp	0.920	1.324	1.480	0.010	>10	pass
Output II, balanced	20.00 Vpp	18.00	19.99	22.00	0.16	>10	pass
	1.200 Vpp	0.920	1.245	1.480	0.010	>10	pass
[43] Common Mode Voltage Measurement Accuracy (Volts)							
Input I, balanced	20.00 Vpp	18.00	19.97	22.00	0.08	>10	pass
	1.200 Vpp	1.030	1.205	1.370	0.005	>10	pass
Input II, balanced	20.00 Vpp	18.00	20.02	22.00	0.08	>10	pass
	1.200 Vpp	1.030	1.212	1.370	0.005	>10	pass
[44] Jitter Accuracy (UI) - self-test							
Generator	4.90 UI	4.40	5.00	5.40	0.06	na	pass
	0.305 UI	0.263	0.315	0.347	0.006	na	pass
Analyzer	0.305 UI, Avg Det	0.268	0.313	0.341	0.006	na	pass
	0.305 UI, Peak Det	0.268	0.315	0.341	0.006	na	pass
[45] Jitter Flatness (dB) - self-test							
	100 Hz	-1.00	0.00	1.00	0.06	na	pass
	200 Hz	-1.00	0.01	1.00	0.06	na	pass
	1 kHz	-1.00	-0.03	1.00	0.06	na	pass
	5 kHz	-1.00	-0.07	1.00	0.06	na	pass
	20 kHz	-1.00	-0.06	1.00	0.06	na	pass
	50 kHz	-1.00	-0.11	1.00	0.06	na	pass
[46] Residual Jitter (nsec, pk) - self-test							
Output I	48 kS, full BW	0	0.359	1.000	0.100	na	pass
	96 kS, full BW	0	0.404	1.000	0.100	na	pass
	192 kS, full BW	0	0.359	1.000	0.160	na	pass
Output II	48 kS, full BW	0	0.449	1.000	0.100	na	pass
	96 kS, full BW	0	0.404	1.000	0.100	na	pass
	192 kS, full BW	0	0.404	1.000	0.160	na	pass

END OF REPORT