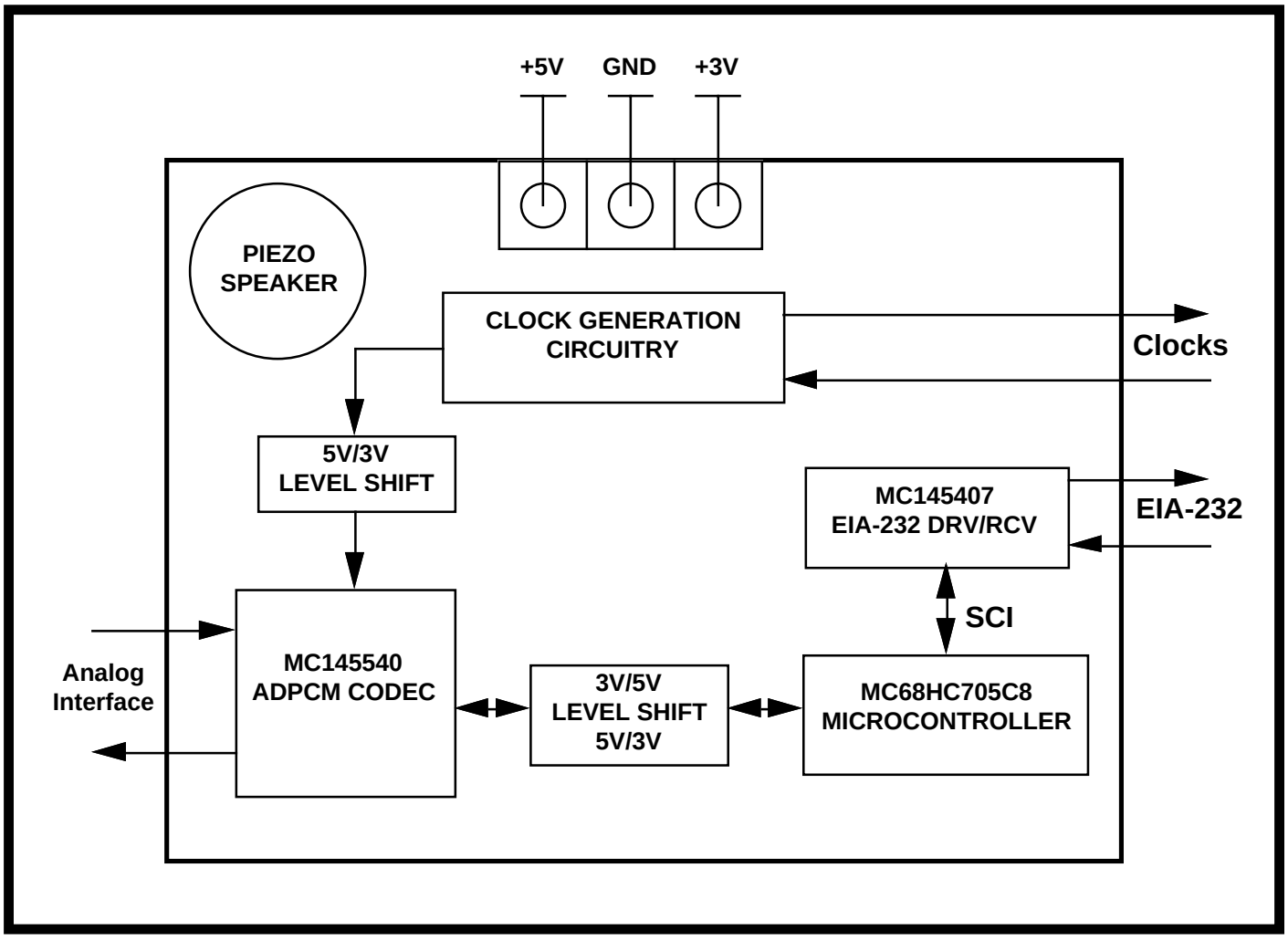
MOTOROLA
SEMICONDUCTOR
TECHNICAL DATA

MC145537EVK TYPICAL PERFORMANCE DATA

A-LAW 64kbps, 32kbps, 24kbps, 16 kbps

Mu-LAW 64kbps, 32kbps, 24kbps, 16 kbps

Data Assembled Using the HP3779 C/D PMAs, MC145537EVK SN 36543,
Tested 5-7-92, MDF



A-LAW 64kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.01	

IDLE CHAN NOISE PSOPH A-A 4/53

UPPER LIMIT (dBm0p): -65.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: -73.0	

QUANT DIST -noise A-A 4/54

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
-55.0	12.6	RESULT (dB): 14.9	
		TX LEVEL (dBm0): -55.00	
-50.0	17.6	RESULT (dB): 19.8	
		TX LEVEL (dBm0): -50.02	
-45.0	22.6	RESULT (dB): 24.8	
		TX LEVEL (dBm0): -45.02	
-40.0	27.6	RESULT (dB): 30.0	
		TX LEVEL (dBm0): -39.95	
-34.0	32.2	RESULT (dB): 34.9	
		TX LEVEL (dBm0): -34.02	
-27.0	33.9	RESULT (dB): 37.8	
		TX LEVEL (dBm0): -27.04	
-25.0	33.9	RESULT (dB): 37.9	
		TX LEVEL (dBm0): -24.95	
-20.0	33.9	RESULT (dB): 38.3	
		TX LEVEL (dBm0): -19.99	
-15.0	33.9	RESULT (dB): 38.5	
		TX LEVEL (dBm0): -14.99	
-10.0	33.9	RESULT (dB): 38.3	
		TX LEVEL (dBm0): -10.03	
-6.0	33.9	RESULT (dB): 37.8	
		TX LEVEL (dBm0): -6.02	
-3.0	26.3	RESULT (dB): 30.4	
		TX LEVEL (dBm0): -3.00	

A-LAW 64kbps (continued)

GAIN v LEVEL - noise A-A 4/55

REF LEVEL (dBm0): -10.0

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-60.0	-1.00	1.00	RESULT (dB):	0.13
	-55.0	-0.50	0.50	RESULT (dB):	-0.05
	-50.0	-0.50	0.50	RESULT (dB):	-0.01
	-45.0	-0.50	0.50	RESULT (dB):	-0.02
	-40.0	-0.50	0.50	RESULT (dB):	0.01
	-35.0	-0.50	0.50	RESULT (dB):	0.01
	-30.0	-0.50	0.50	RESULT (dB):	0.03
	-25.0	-0.50	0.50	RESULT (dB):	0.01
	-20.0	-0.50	0.50	RESULT (dB):	0.02
	-15.0	-0.50	0.50	RESULT (dB):	0.02
	-10.0	-0.50	0.50	RESULT (dB):	0.01

GAIN v LEVEL - tone A-A 4/56

FREQUENCY (kHz): 0.81
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-10.0	-0.50	0.50	RESULT (dB):	0.00
	-5.0	-0.50	0.50	RESULT (dB):	-0.01
	0.0	-0.50	0.50	RESULT (dB):	-0.06
	3.0	-0.50	0.50	RESULT (dB):	-0.32

QUANT DIST - tone A-A 4/57

FREQUENCY (kHz): 0.81

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
	-45.0	22.0	RESULT (dB):	26.9
			TX LEVEL (dBm0):	-45.00
	-40.0	27.0	RESULT (dB):	31.8
			TX LEVEL (dBm0):	-40.01
	-35.0	30.0	RESULT (dB):	36.7
			TX LEVEL (dBm0):	-35.03
	-30.0	33.0	RESULT (dB):	38.9
			TX LEVEL (dBm0):	-30.04
	-25.0	33.0	RESULT (dB):	39.8
			TX LEVEL (dBm0):	-25.03
	-20.0	33.0	RESULT (dB):	40.0
			TX LEVEL (dBm0):	-20.04
	-15.0	33.0	RESULT (dB):	41.2
			TX LEVEL (dBm0):	-14.97
	-10.0	33.0	RESULT (dB):	42.2
			TX LEVEL (dBm0):	-9.98
	-5.0	33.0	RESULT (dB):	40.0
			TX LEVEL (dBm0):	-5.01
	-0.0	33.0	RESULT (dB):	39.1
			TX LEVEL (dBm0):	-0.02

A-LAW 64kbps (continued)

GAIN v FREQUENCY A-A 4/58

REF FREQUENCY (kHz): 0.81
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN: LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
0.06	******	-22.00	RESULT (dB):	-28.76
0.21	******	0.50	RESULT (dB):	-0.50
0.31	-0.50	0.50	RESULT (dB):	-0.01
0.61	-0.50	0.50	RESULT (dB):	-0.02
0.91	-0.50	0.50	RESULT (dB):	0.01
1.21	-0.50	0.50	RESULT (dB):	0.04
1.51	-0.50	0.50	RESULT (dB):	0.09
1.81	-0.50	0.50	RESULT (dB):	0.12
2.11	-0.50	0.50	RESULT (dB):	0.09
2.41	-0.50	0.50	RESULT (dB):	-0.01
2.71	-0.50	0.50	RESULT (dB):	-0.12
2.99	-0.50	0.50	RESULT (dB):	-0.01
3.39	-1.80	0.50	RESULT (dB):	-0.94
3.59	******	0.50	RESULT (dB):	-7.02
3.98	******	-28.00	RESULT (dB):	-31.60

A-LAW 32kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.01	

IDLE CHAN NOISE PSOPH A-A 4/53

UPPER LIMIT (dBm0p): -65.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: -73.5	

QUANT DIST -noise A-A 4/54

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
-55.0	12.6	RESULT (dB): 14.8	
		TX LEVEL (dBm0): -55.00	
-50.0	17.6	RESULT (dB): 19.7	
		TX LEVEL (dBm0): -50.02	
-45.0	22.6	RESULT (dB): 24.6	
		TX LEVEL (dBm0): -45.02	
-40.0	27.6	RESULT (dB): 29.6	
		TX LEVEL (dBm0): -39.95	
-34.0	32.2	RESULT (dB): 34.0	
		TX LEVEL (dBm0): -34.02	
-27.0	33.9	RESULT (dB): 36.7	
		TX LEVEL (dBm0): -27.04	
-25.0	33.9	RESULT (dB): 36.8	
		TX LEVEL (dBm0): -24.95	
-20.0	33.9	RESULT (dB): 37.4	
		TX LEVEL (dBm0): -19.99	
-15.0	33.9	RESULT (dB): 37.6	
		TX LEVEL (dBm0): -15.00	
-10.0	33.9	RESULT (dB): 37.3	
		TX LEVEL (dBm0): -10.03	
-6.0	33.9	RESULT (dB): 36.7	
		TX LEVEL (dBm0): -6.02	
-3.0	26.3	RESULT (dB): 29.7	
		TX LEVEL (dBm0): -3.00	

A-LAW 32kbps (continued)

GAIN v LEVEL - noise A-A 4/55

REF LEVEL (dBm0): -10.0

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-60.0	-1.00	1.00	RESULT (dB):	0.09
	-55.0	-0.50	0.50	RESULT (dB):	0.03
	-50.0	-0.50	0.50	RESULT (dB):	-0.04
	-45.0	-0.50	0.50	RESULT (dB):	0.04
	-40.0	-0.50	0.50	RESULT (dB):	0.03
	-35.0	-0.50	0.50	RESULT (dB):	0.02
	-30.0	-0.50	0.50	RESULT (dB):	0.02
	-25.0	-0.50	0.50	RESULT (dB):	0.03
	-20.0	-0.50	0.50	RESULT (dB):	0.03
	-15.0	-0.50	0.50	RESULT (dB):	0.03
	-10.0	-0.50	0.50	RESULT (dB):	0.02

GAIN v LEVEL - tone A-A 4/56

FREQUENCY (kHz): 0.81
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-10.0	-0.50	0.50	RESULT (dB):	0.00
	-5.0	-0.50	0.50	RESULT (dB):	0.00
	0.0	-0.50	0.50	RESULT (dB):	-0.05
	3.0	-0.50	0.50	RESULT (dB):	-0.33

QUANT DIST - tone A-A 4/57

FREQUENCY (kHz): 0.81

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
	-45.0	22.0	RESULT (dB):	26.9
			TX LEVEL (dBm0):	-45.00
	-40.0	27.0	RESULT (dB):	30.5
			TX LEVEL (dBm0):	-40.01
	-35.0	30.0	RESULT (dB):	33.1
			TX LEVEL (dBm0):	-35.03
	-30.0	33.0	RESULT (dB):	35.9
			TX LEVEL (dBm0):	-30.04
	-25.0	33.0	RESULT (dB):	36.7
			TX LEVEL (dBm0):	-25.03
	-20.0	33.0	RESULT (dB):	36.8
			TX LEVEL (dBm0):	-20.04
	-15.0	33.0	RESULT (dB):	37.0
			TX LEVEL (dBm0):	-14.97
	-10.0	33.0	RESULT (dB):	38.0
			TX LEVEL (dBm0):	-9.98
	-5.0	33.0	RESULT (dB):	37.0
			TX LEVEL (dBm0):	-5.01
	-0.0	33.0	RESULT (dB):	36.1
			TX LEVEL (dBm0):	-0.02

A-LAW 32kbps (continued)

GAIN v FREQUENCY A-A 4/58

REF FREQUENCY (kHz): 0.81
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN: LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
0.06	******	-22.00	RESULT (dB):	-28.76
0.21	******	0.50	RESULT (dB):	-0.50
0.31	-0.50	0.50	RESULT (dB):	-0.02
0.61	-0.50	0.50	RESULT (dB):	-0.02
0.91	-0.50	0.50	RESULT (dB):	0.01
1.21	-0.50	0.50	RESULT (dB):	0.04
1.51	-0.50	0.50	RESULT (dB):	0.08
1.81	-0.50	0.50	RESULT (dB):	0.11
2.11	-0.50	0.50	RESULT (dB):	0.09
2.41	-0.50	0.50	RESULT (dB):	-0.01
2.71	-0.50	0.50	RESULT (dB):	-0.13
2.99	-0.50	0.50	RESULT (dB):	-0.01
3.39	-1.80	0.50	RESULT (dB):	-0.94
3.59	******	0.50	RESULT (dB):	-7.03
3.98	******	-28.00	RESULT (dB):	-31.60

A-LAW 24kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.03	

IDLE CHAN NOISE PSOPH A-A 4/53

UPPER LIMIT (dBm0p): -65.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: -68.7	

QUANT DIST -noise A-A 4/54

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
-55.0	12.6	RESULT (dB): 12.2	
		TX LEVEL (dBm0): -55.00	
-50.0	17.6	RESULT (dB): 16.3	
		TX LEVEL (dBm0): -50.02	
-45.0	22.6	RESULT (dB): 20.5	
		TX LEVEL (dBm0): -45.02	
-40.0	27.6	RESULT (dB): 24.7	*Lower
		TX LEVEL (dBm0): -39.95	
-34.0	32.2	RESULT (dB): 28.1	*Lower
		TX LEVEL (dBm0): -34.02	
-27.0	33.9	RESULT (dB): 31.2	*Lower
		TX LEVEL (dBm0): -27.04	
-25.0	33.9	RESULT (dB): 31.5	*Lower
		TX LEVEL (dBm0): -24.95	
-20.0	33.9	RESULT (dB): 32.5	*Lower
		TX LEVEL (dBm0): -19.99	
-15.0	33.9	RESULT (dB): 33.2	*Lower
		TX LEVEL (dBm0): -15.00	
-10.0	33.9	RESULT (dB): 33.2	*Lower
		TX LEVEL (dBm0): -10.03	
-6.0	33.9	RESULT (dB): 33.2	*Lower
		TX LEVEL (dBm0): -6.02	
-3.0	26.3	RESULT (dB): 29.3	
		TX LEVEL (dBm0): -3.00	

A-LAW 24kbps (continued)

GAIN v LEVEL - noise A-A 4/55

REF LEVEL (DBm0): -10.0

CHAN:	LEVEL (dBm0)	LOWER LIMITS (dB)	UPPER LIMITS (dB)	MEASUREMENT RESULTS	*IF FAIL
	-60.0	-1.00	1.00	RESULT (dB):	-0.15
	-55.0	-0.50	0.50	RESULT (dB):	-0.14
	-50.0	-0.50	0.50	RESULT (dB):	-0.05
	-45.0	-0.50	0.50	RESULT (dB):	-0.06
	-40.0	-0.50	0.50	RESULT (dB):	-0.04
	-35.0	-0.50	0.50	RESULT (dB):	-0.01
	-30.0	-0.50	0.50	RESULT (dB):	0.01
	-25.0	-0.50	0.50	RESULT (dB):	0.00
	-20.0	-0.50	0.50	RESULT (dB):	0.02
	-15.0	-0.50	0.50	RESULT (dB):	0.01
	-10.0	-0.50	0.50	RESULT (dB):	-0.01

GAIN v LEVEL - tone A-A 4/56

FREQUENCY (kHz): 0.81
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LOWER LIMITS (dB)	UPPER LIMITS (dB)	MEASUREMENT RESULTS	*IF FAIL
	-10.0	-0.50	0.50	RESULT (dB):	-0.01
	-5.0	-0.50	0.50	RESULT (dB):	0.01
	0.0	-0.50	0.50	RESULT (dB):	-0.05
	3.0	-0.50	0.50	RESULT (dB):	-0.35

QUANT DIST - tone A-A 4/57

FREQUENCY (kHz): 0.81

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
	-45.0	22.0	RESULT	(dB):	21.9	*Lower
			TX LEVEL	(dBm0):	-45.00	
	-40.0	27.0	RESULT	(dB):	25.9	*Lower
			TX LEVEL	(dBm0):	-40.1	
	-35.0	30.0	RESULT	(dB):	28.3	*Lower
			TX LEVEL	(dBm0):	35.03	
	-30.0	33.0	RESULT	(dB):	29.0	*Lower
			TX LEVEL	(dBm0):	-30.04	
	-25.0	33.0	RESULT	(dB):	28.9	*Lower
			TX LEVEL	(dBm0):	-25.03	
	-20.0	33.0	RESULT	(dB):	29.3	*Lower
			TX LEVEL	(dBm0):	-20.04	
	-15.0	33.0	RESULT	(dB):	29.7	*Lower
			TX LEVEL	(dBm0):	-14.97	
	-10.0	33.0	RESULT	(dB):	30.6	*Lower
			TX LEVEL	(dBm0):	-9.98	
	-5.0	33.0	RESULT	(dB):	20.2	*Lower
			TX LEVEL	(dBm0):	-5.01	
	-0.0	33.0	RESULT	(dB):	29.7	*Lower
			TX LEVEL	(dBm0):	-0.02	

A-LAW 24kbps (continued)

GAIN v FREQUENCY A-A 4/58

REF FREQUENCY (kHz): 0.81
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN: LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
0.06	******	-22.00	RESULT (dB):	-28.82
0.21	******	0.50	RESULT (dB):	-0.55
0.31	-0.50	0.50	RESULT (dB):	-0.06
0.61	-0.50	0.50	RESULT (dB):	-0.06
0.91	-0.50	0.50	RESULT (dB):	0.01
1.21	-0.50	0.50	RESULT (dB):	-0.02
1.51	-0.50	0.50	RESULT (dB):	0.04
1.81	-0.50	0.50	RESULT (dB):	0.05
2.11	-0.50	0.50	RESULT (dB):	0.03
2.41	-0.50	0.50	RESULT (dB):	-0.09
2.71	-0.50	0.50	RESULT (dB):	-0.17
2.99	-0.50	0.50	RESULT (dB):	-0.03
3.39	-1.80	0.50	RESULT (dB):	-0.99
3.59	******	0.50	RESULT (dB):	-7.08
3.98	******	-28.00	RESULT (dB):	-31.65

A-LAW CCITT G.726 16kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.01	

IDLE CHAN NOISE PSOPH A-A 4/53

UPPER LIMIT (dBm0p): -65.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: -68.4	

QUANT DIST -noise A-A 4/54

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
-55.0	12.6	RESULT (dB): 8.8	*Lower
		TX LEVEL (dBm0): -55.00	
-50.0	17.6	RESULT (dB): 12.0	*Lower
		TX LEVEL (dBm0): -50.02	
-45.0	22.6	RESULT (dB): 14.4	*Lower
		TX LEVEL (dBm0): -45.02	
-40.0	27.6	RESULT (dB): 16.7	*Lower
		TX LEVEL (dBm0): -39.95	
-34.0	32.2	RESULT (dB): 18.5	*Lower
		TX LEVEL (dBm0): -34.02	
-27.0	33.9	RESULT (dB): 20.6	*Lower
		TX LEVEL (dBm0): -27.04	
-25.0	33.9	RESULT (dB): 20.9	*Lower
		TX LEVEL (dBm0): -24.95	
-20.0	33.9	RESULT (dB): 22.2	*Lower
		TX LEVEL (dBm0): -19.99	
-15.0	33.9	RESULT (dB): 23.3	*Lower
		TX LEVEL (dBm0): -15.00	
-10.0	33.9	RESULT (dB): 24.1	*Lower
		TX LEVEL (dBm0): -10.03	
-6.0	33.9	RESULT (dB): 24.4	*Lower
		TX LEVEL (dBm0): -6.02	
-3.0	26.3	RESULT (dB): 24.2	*Lower
		TX LEVEL (dBm0): -3.00	

A-LAW CCITT G.726 16kbps (Continued)

GAIN v LEVEL - noise A-A 4/55

REF LEVEL (dBm0): -10.0

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-60.0	-1.00	1.00	RESULT (dB): -0.13	
	-55.0	-0.50	0.50	RESULT (dB): -0.23	
	-50.0	-0.50	0.50	RESULT (dB): -0.29	
	-45.0	-0.50	0.50	RESULT (dB): -0.22	
	-40.0	-0.50	0.50	RESULT (dB): -0.10	
	-35.0	-0.50	0.50	RESULT (dB): -0.03	
	-30.0	-0.50	0.50	RESULT (dB): 0.05	
	-25.0	-0.50	0.50	RESULT (dB): 0.05	
	-20.0	-0.50	0.50	RESULT (dB): 0.07	
	-15.0	-0.50	0.50	RESULT (dB): 0.00	
	-10.0	-0.50	0.50	RESULT (dB): 0.04	

GAIN v LEVEL - tone A-A 4/56

FREQUENCY (kHz): 0.81
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-10.0	-0.50	0.50	RESULT (dB): 0.01	
	-5.0	-0.50	0.50	RESULT (dB): 0.01	
	0.0	-0.50	0.50	RESULT (dB): -0.10	
	3.0	-0.50	0.50	RESULT (dB): -0.39	

QUANT DIST - tone A-A 4/57

FREQUENCY (kHz): 0.81

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
	-45.0	22.0	RESULT	(dB):	16.9	*Lower
			TX LEVEL	(dBm0):	-45.00	
	-40.0	27.0	RESULT	(dB):	18.5	*Lower
			TX LEVEL	(dBm0):	-40.01	
	-35.0	30.0	RESULT	(dB):	20.9	*Lower
			TX LEVEL	(dBm0):	-35.04	
	-30.0	33.0	RESULT	(dB):	22.2	*Lower
			TX LEVEL	(dBm0):	-30.04	
	-25.0	33.0	RESULT	(dB):	24.0	*Lower
			TX LEVEL	(dBm0):	-25.03	
	-20.0	33.0	RESULT	(dB):	24.5	*Lower
			TX LEVEL	(dBm0):	-20.04	
	-15.0	33.0	RESULT	(dB):	26.1	*Lower
			TX LEVEL	(dBm0):	-14.97	
	-10.0	33.0	RESULT	(dB):	27.2	*Lower
			TX LEVEL	(dBm0):	-9.98	
	-5.0	33.0	RESULT	(dB):	27.1	*Lower
			TX LEVEL	(dBm0):	-5.01	
	-0.0	33.0	RESULT	(dB):	26.9	*Lower
			TX LEVEL	(dBm0):	-0.02	

A-LAW CCITT G.726 16kbps (Continued)

GAIN v FREQUENCY A-A 4/58

REF FREQUENCY (kHz): 0.81
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN: LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
0.06	******	-22.00	RESULT (dB):	-28.81
0.21	******	0.50	RESULT (dB):	-0.52
0.31	-0.50	0.50	RESULT (dB):	-0.04
0.61	-0.50	0.50	RESULT (dB):	-0.01
0.91	-0.50	0.50	RESULT (dB):	-0.03
1.21	-0.50	0.50	RESULT (dB):	0.05
1.51	-0.50	0.50	RESULT (dB):	0.07
1.81	-0.50	0.50	RESULT (dB):	0.07
2.11	-0.50	0.50	RESULT (dB):	0.05
2.41	-0.50	0.50	RESULT (dB):	-0.04
2.71	-0.50	0.50	RESULT (dB):	-0.12
2.99	-0.50	0.50	RESULT (dB):	-0.02
3.39	-1.80	0.50	RESULT (dB):	-0.93
3.59	******	0.50	RESULT (dB):	-7.06
3.98	******	-28.00	RESULT (dB):	-31.62

A-LAW Motorola 16kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.01	

IDLE CHAN NOISE PSOPH A-A 4/53

UPPER LIMIT (dBm0p): -65.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: -68.2	

QUANT DIST -noise A-A 4/54

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
-55.0	12.6	RESULT	(dB):	8.5	*Lower
		TX LEVEL	(dBm0):	-55.00	
-50.0	17.6	RESULT	(dB):	11.9	*Lower
		TX LEVEL	(dBm0):	-50.02	
-45.0	22.6	RESULT	(dB):	14.8	*Lower
		TX LEVEL	(dBm0):	-45.02	
-40.0	27.6	RESULT	(dB):	17.5	*Lower
		TX LEVEL	(dBm0):	-39.95	
-34.0	32.2	RESULT	(dB):	19.3	*Lower
		TX LEVEL	(dBm0):	-34.02	
-27.0	33.9	RESULT	(dB):	21.8	*Lower
		TX LEVEL	(dBm0):	-27.04	
-25.0	33.9	RESULT	(dB):	23.0	*Lower
		TX LEVEL	(dBm0):	-24.95	
-20.0	33.9	RESULT	(dB):	24.3	*Lower
		TX LEVEL	(dBm0):	-19.99	
-15.0	33.9	RESULT	(dB):	25.6	*Lower
		TX LEVEL	(dBm0):	-15.00	
-10.0	33.9	RESULT	(dB):	26.8	*Lower
		TX LEVEL	(dBm0):	-10.03	
-6.0	33.9	RESULT	(dB):	27.0	*Lower
		TX LEVEL	(dBm0):	-6.02	
-3.0	26.3	RESULT	(dB):	25.7	*Lower
		TX LEVEL	(dBm0):	-3.00	

A-LAW Motorola 16kbps (Continued)

GAIN v LEVEL - noise A-A 4/55

REF LEVEL (dBm0): -10.0

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-60.0	-1.00	1.00	RESULT (dB): 0.05	
	-55.0	-0.50	0.50	RESULT (dB): -0.11	
	-50.0	-0.50	0.50	RESULT (dB): -0.07	
	-45.0	-0.50	0.50	RESULT (dB): -0.22	
	-40.0	-0.50	0.50	RESULT (dB): -0.21	
	-35.0	-0.50	0.50	RESULT (dB): 0.00	
	-30.0	-0.50	0.50	RESULT (dB): -0.04	
	-25.0	-0.50	0.50	RESULT (dB): -0.03	
	-20.0	-0.50	0.50	RESULT (dB): 0.02	
	-15.0	-0.50	0.50	RESULT (dB): 0.01	
	-10.0	-0.50	0.50	RESULT (dB): 0.03	

GAIN v LEVEL - tone A-A 4/56

FREQUENCY (kHz): 0.81
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-10.0	-0.50	0.50	RESULT (dB): 0.02	
	-5.0	-0.50	0.50	RESULT (dB): -0.01	
	0.0	-0.50	0.50	RESULT (dB): -0.05	
	3.0	-0.50	0.50	RESULT (dB): -0.30	

QUANT DIST - tone A-A 4/57

FREQUENCY (kHz): 0.81

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
	-45.0	22.0	RESULT	(dB):	15.0	*Lower
			TX LEVEL	(dBm0):	-45.00	
	-40.0	27.0	RESULT	(dB):	18.2	*Lower
			TX LEVEL	(dBm0):	-40.01	
	-35.0	30.0	RESULT	(dB):	20.9	*Lower
			TX LEVEL	(dBm0):	-35.04	
	-30.0	33.0	RESULT	(dB):	23.3	*Lower
			TX LEVEL	(dBm0):	-30.04	
	-25.0	33.0	RESULT	(dB):	25.0	*Lower
			TX LEVEL	(dBm0):	-25.03	
	-20.0	33.0	RESULT	(dB):	26.8	*Lower
			TX LEVEL	(dBm0):	-20.04	
	-15.0	33.0	RESULT	(dB):	27.8	*Lower
			TX LEVEL	(dBm0):	-14.97	
	-10.0	33.0	RESULT	(dB):	28.0	*Lower
			TX LEVEL	(dBm0):	-9.98	
	-5.0	33.0	RESULT	(dB):	27.2	*Lower
			TX LEVEL	(dBm0):	-5.01	
	-0.0	33.0	RESULT	(dB):	26.0	*Lower
			TX LEVEL	(dBm0):	-0.02	

A-LAW Motorola16kbps (Continued)

GAIN v FREQUENCY A-A 4/58

REF FREQUENCY (kHz): 0.81
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN: LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
0.06	******	-22.00	RESULT (dB):	-28.81
0.21	******	0.50	RESULT (dB):	-0.50
0.31	-0.50	0.50	RESULT (dB):	-0.01
0.61	-0.50	0.50	RESULT (dB):	-0.03
0.91	-0.50	0.50	RESULT (dB):	0.03
1.21	-0.50	0.50	RESULT (dB):	0.00
1.51	-0.50	0.50	RESULT (dB):	0.04
1.81	-0.50	0.50	RESULT (dB):	0.07
2.11	-0.50	0.50	RESULT (dB):	-0.03
2.41	-0.50	0.50	RESULT (dB):	-0.10
2.71	-0.50	0.50	RESULT (dB):	-0.14
2.99	-0.50	0.50	RESULT (dB):	-0.02
3.39	-1.80	0.50	RESULT (dB):	-0.98
3.59	******	0.50	RESULT (dB):	-7.03
3.98	******	-28.00	RESULT (dB):	-31.63

MU-LAW 64kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN MEASUREMENT RESULTS *IF FAIL

RESULT (dB): 0.01

IDLE CHAN NOISE C-MES A-A 4/53

UPPER LIMIT (dBrnCO): 23.0

CHAN MEASUREMENT RESULTS *IF FAIL

RESULT: 14.5

QUANT DIST -tone A-A 4/54

FREQUENCY (KHZ): 1.01

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
-45.0	22.0	RESULT (dB):	29.0
		TX LEVEL (dBm0):	-45.00
-40.0	27.0	RESULT (dB):	33.3
		TX LEVEL (dBm0):	-40.01
-35.0	30.0	RESULT (dB):	35.8
		TX LEVEL (dBm0):	-35.04
-30.0	33.0	RESULT (dB):	38.4
		TX LEVEL (dBm0):	-29.95
-25.0	33.0	RESULT (dB):	39.6
		TX LEVEL (dBm0):	-25.04
-20.0	33.0	RESULT (dB):	40.0
		TX LEVEL (dBm0):	-19.95
-15.0	33.0	RESULT (dB):	41.6
		TX LEVEL (dBm0):	-14.97
-10.0	33.0	RESULT (dB):	42.1
		TX LEVEL (dBm0):	-9.97
-5.0	33.0	RESULT (dB):	40.8
		TX LEVEL (dBm0):	-5.01
0.0	33.0	RESULT (dB):	39.4
		TX LEVEL (dBm0):	-0.01

MU-LAW 64kbps (Continued)

GAIN v LEVEL - tone A-A 4/55

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): -10.0
RX FILTER: 1 (0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-55.0	-3.00	3.00	RESULT (dB):	-0.34
	-50.0	-1.00	1.00	RESULT (dB):	-0.23
	-45.0	-1.00	1.00	RESULT (dB):	-0.10
	-40.0	-0.50	0.50	RESULT (dB):	-0.11
	-35.0	-0.50	0.50	RESULT (dB):	-0.06
	-30.0	-0.50	0.50	RESULT (dB):	-0.02
	-25.0	-0.50	0.50	RESULT (dB):	0.01
	-20.0	-0.50	0.50	RESULT (dB):	-0.03
	-15.0	-0.50	0.50	RESULT (dB):	0.04
	-10.0	-0.50	0.50	RESULT (dB):	0.00
	-5.0	-0.50	0.50	RESULT (dB):	0.01
	0.0	-0.50	0.50	RESULT (dB):	0.04
	3.0	-0.50	0.50	RESULT (dB):	-0.28

GAIN v FREQUENCY A-A 4/56

REF FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	0.06	******	-22.00	RESULT (dB):	-28.77
	0.21	******	0.50	RESULT (dB):	-0.51
	0.31	-0.50	0.50	RESULT (dB):	-0.01
	0.61	-0.50	0.50	RESULT (dB):	-0.02
	0.91	-0.50	0.50	RESULT (dB):	0.01
	1.21	-0.50	0.50	RESULT (dB):	0.04
	1.51	-0.50	0.50	RESULT (dB):	0.09
	1.81	-0.50	0.50	RESULT (dB):	0.11
	2.11	-0.50	0.50	RESULT (dB):	0.09
	2.41	-0.50	0.50	RESULT (dB):	-0.01
	2.71	-0.50	0.50	RESULT (dB):	-0.13
	2.99	-0.50	0.50	RESULT (dB):	-0.01
	3.39	-1.80	0.50	RESULT (dB):	-0.94
	3.59	******	0.50	RESULT (dB):	-7.03
	3.98	******	-28.00	RESULT (dB):	-31.63

MU-LAW 32kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.01	

IDLE CHAN NOISE C-MES A-A 4/53

UPPER LIMIT (dBrnCO): 23.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: 15.0	

QUANT DIST -tone A-A 4/54

FREQUENCY (kHz): 1.01

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS	*IF FAIL
	-45.0	22.0	RESULT (dB): 26.5	
			TX LEVEL (dBm0): -45.00	
	-40.0	27.0	RESULT (dB): 30.3	
			TX LEVEL (dBm0): -40.01	
	-35.0	30.0	RESULT (dB): 32.9	
			TX LEVEL (dBm0): -35.04	
	-30.0	33.0	RESULT (dB): 36.3	
			TX LEVEL (dBm0): -29.95	
	-25.0	33.0	RESULT (dB): 37.0	
			TX LEVEL (dBm0): -25.04	
	-20.0	33.0	RESULT (dB): 36.5	
			TX LEVEL (dBm0): -19.95	
	-15.0	33.0	RESULT (dB): 37.6	
			TX LEVEL (dBm0): -14.97	
	-10.0	33.0	RESULT (dB): 38.2	
			TX LEVEL (dBm0): -9.97	
	-5.0	33.0	RESULT (dB): 37.6	
			TX LEVEL (dBm0): -5.01	
	0.0	33.0	RESULT (dB): 36.0	
			TX LEVEL (dBm0): -0.01	

MU-LAW 32kbps (Continued)

GAIN v LEVEL - tone A-A 4/55

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): -10.0
RX FILTER: 1
(0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-55.0	-3.00	3.00	RESULT (dB):	-0.34
	-50.0	-1.00	1.00	RESULT (dB):	-0.17
	-45.0	-1.00	1.00	RESULT (dB):	-0.11
	-40.0	-0.50	0.50	RESULT (dB):	-0.03
	-35.0	-0.50	0.50	RESULT (dB):	0.00
	-30.0	-0.50	0.50	RESULT (dB):	-0.01
	-25.0	-0.50	0.50	RESULT (dB):	0.01
	-20.0	-0.50	0.50	RESULT (dB):	-0.03
	-15.0	-0.50	0.50	RESULT (dB):	0.04
	-10.0	-0.50	0.50	RESULT (dB):	0.01
	-5.0	-0.50	0.50	RESULT (dB):	0.02
	0.0	-0.50	0.50	RESULT (dB):	-0.04
	3.0	-0.50	0.50	RESULT (dB):	-0.31

GAIN v FREQUENCY A-A 4/56

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	0.06	******	-22.00	RESULT (dB):	-28.77
	0.21	******	0.50	RESULT (dB):	-0.50
	0.31	-0.50	0.50	RESULT (dB):	-0.02
	0.61	-0.50	0.50	RESULT (dB):	-0.02
	0.91	-0.50	0.50	RESULT (dB):	0.01
	1.21	-0.50	0.50	RESULT (dB):	0.04
	1.51	-0.50	0.50	RESULT (dB):	0.07
	1.81	-0.50	0.50	RESULT (dB):	0.11
	2.11	-0.50	0.50	RESULT (dB):	0.08
	2.41	-0.50	0.50	RESULT (dB):	-0.01
	2.71	-0.50	0.50	RESULT (dB):	-0.12
	2.99	-0.50	0.50	RESULT (dB):	-0.02
	3.39	-1.80	0.50	RESULT (dB):	-0.95
	3.59	******	0.50	RESULT (dB):	-7.05
	3.98	******	-28.00	RESULT (dB):	-31.67

MU-LAW 24kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT (dB): 0.04	

IDLE CHAN NOISE C-MES A-A 4/53

UPPER LIMIT (dBrnC0): 23.0

CHAN	MEASUREMENT RESULTS	*IF FAIL
	RESULT: 19.2	

QUANT DIST -tone A-A 4/54

FREQUENCY (kHz): 1.01

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
	-45.0	22.0	RESULT	(dB):	23.3	
			TX LEVEL	(dBm0):	-45.00	
	-40.0	27.0	RESULT	(dB):	26.5	*Lower
			TX LEVEL	(dBm0):	-40.00	
	-35.0	30.0	RESULT	(dB):	28.5	*Lower
			TX LEVEL	(dBm0):	-35.04	
	-30.0	33.0	RESULT	(dB):	28.8	*Lower
			TX LEVEL	(dBm0):	-29.95	
	-25.0	33.0	RESULT	(dB):	28.8	*Lower
			TX LEVEL	(dBm0):	-25.04	
	-20.0	33.0	RESULT	(dB):	29.1	*Lower
			TX LEVEL	(dBm0):	-19.95	
	-15.0	33.0	RESULT	(dB):	29.8	*Lower
			TX LEVEL	(dBm0):	-14.97	
	-10.0	33.0	RESULT	(dB):	30.5	*Lower
			TX LEVEL	(dBm0):	-9.97	
	-5.0	33.0	RESULT	(dB):	30.3	*Lower
			TX LEVEL	(dBm0):	-5.01	
	0.0	33.0	RESULT	(dB):	30.1	*Lower
			TX LEVEL	(dBm0):	-0.01	

MU-LAW 24kbps (Continued)

GAIN v LEVEL - tone A-A 4/55

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): -10.0
RX FILTER: 1
(0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-55.0	-3.00	3.00	RESULT (dB):	-0.24
	-50.0	-1.00	1.00	RESULT (dB):	-0.22
	-45.0	-1.00	1.00	RESULT (dB):	-0.13
	-40.0	-0.50	0.50	RESULT (dB):	-0.05
	-35.0	-0.50	0.50	RESULT (dB):	0.00
	-30.0	-0.50	0.50	RESULT (dB):	-0.05
	-25.0	-0.50	0.50	RESULT (dB):	0.01
	-20.0	-0.50	0.50	RESULT (dB):	-0.01
	-15.0	-0.50	0.50	RESULT (dB):	0.00
	-10.0	-0.50	0.50	RESULT (dB):	-0.01
	-5.0	-0.50	0.50	RESULT (dB):	0.012
	0.0	-0.50	0.50	RESULT (dB):	0.05
	3.0	-0.50	0.50	RESULT (dB):	-0.32

GAIN v FREQUENCY A-A 4/56

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	0.06	******	-22.00	RESULT (dB):	-28.80
	0.21	******	0.50	RESULT (dB):	-0.54
	0.31	-0.50	0.50	RESULT (dB):	-0.05
	0.61	-0.50	0.50	RESULT (dB):	-0.04
	0.91	-0.50	0.50	RESULT (dB):	0.00
	1.21	-0.50	0.50	RESULT (dB):	0.01
	1.51	-0.50	0.50	RESULT (dB):	0.02
	1.81	-0.50	0.50	RESULT (dB):	0.04
	2.11	-0.50	0.50	RESULT (dB):	0.03
	2.41	-0.50	0.50	RESULT (dB):	-0.06
	2.71	-0.50	0.50	RESULT (dB):	-0.16
	2.99	-0.50	0.50	RESULT (dB):	-0.03
	3.39	-1.80	0.50	RESULT (dB):	-0.96
	3.59	******	0.50	RESULT (dB):	-7.07
	3.98	******	-28.00	RESULT (dB):	-31.66

MU-LAW CCITT G.726 16kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN MEASUREMENT RESULTS *IF FAIL

RESULT (dB): 0.02

IDLE CHAN NOISE C-MES A-A 4/53

UPPER LIMIT (dBrnC0): 23.0

CHAN MEASUREMENT RESULTS *IF FAIL

RESULT: 21.3

QUANT DIST -tone A-A 4/54

FREQUENCY (kHz): 1.01

CHAN: LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
-45.0	22.0	RESULT	(dB):	17.1	*Lower
		TX LEVEL	(dBm0):	-45.00	
-40.0	27.0	RESULT	(dB):	18.9	*Lower
		TX LEVEL	(dBm0):	-40.00	
-35.0	30.0	RESULT	(dB):	21.0	*Lower
		TX LEVEL	(dBm0):	-35.04	
-30.0	33.0	RESULT	(dB):	22.8	*Lower
		TX LEVEL	(dBm0):	-29.95	
-25.0	33.0	RESULT	(dB):	23.6	*Lower
		TX LEVEL	(dBm0):	-25.04	
-20.0	33.0	RESULT	(dB):	25.3	*Lower
		TX LEVEL	(dBm0):	-19.95	
-15.0	33.0	RESULT	(dB):	26.1	*Lower
		TX LEVEL	(dBm0):	-14.97	
-10.0	33.0	RESULT	(dB):	26.4	*Lower
		TX LEVEL	(dBm0):	-9.97	
-5.0	33.0	RESULT	(dB):	27.6	*Lower
		TX LEVEL	(dBm0):	-5.01	
0.0	33.0	RESULT	(dB):	28.0	*Lower
		TX LEVEL	(dBm0):	-0.01	

MU-LAW CCITT G.726 16kbps (Continued)

GAIN v LEVEL - tone A-A 4/55

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): -10.0
RX FILTER: 1
(0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-55.0	-3.00	3.00	RESULT (dB):	-0.23
	-50.0	-1.00	1.00	RESULT (dB):	-0.24
	-45.0	-1.00	1.00	RESULT (dB):	-0.12
	-40.0	-0.50	0.50	RESULT (dB):	-0.09
	-35.0	-0.50	0.50	RESULT (dB):	-0.04
	-30.0	-0.50	0.50	RESULT (dB):	-0.06
	-25.0	-0.50	0.50	RESULT (dB):	0.04
	-20.0	-0.50	0.50	RESULT (dB):	-0.03
	-15.0	-0.50	0.50	RESULT (dB):	0.06
	-10.0	-0.50	0.50	RESULT (dB):	-0.05
	-5.0	-0.50	0.50	RESULT (dB):	-0.05
	0.0	-0.50	0.50	RESULT (dB):	-0.09
	3.0	-0.50	0.50	RESULT (dB):	-0.40

GAIN v FREQUENCY A-A 4/56

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	0.06	******	-22.00	RESULT (dB):	-28.77
	0.21	******	0.50	RESULT (dB):	-0.51
	0.31	-0.50	0.50	RESULT (dB):	-0.03
	0.61	-0.50	0.50	RESULT (dB):	-0.03
	0.91	-0.50	0.50	RESULT (dB):	0.02
	1.21	-0.50	0.50	RESULT (dB):	0.05
	1.51	-0.50	0.50	RESULT (dB):	0.10
	1.81	-0.50	0.50	RESULT (dB):	0.12
	2.11	-0.50	0.50	RESULT (dB):	0.08
	2.41	-0.50	0.50	RESULT (dB):	-0.03
	2.71	-0.50	0.50	RESULT (dB):	-0.14
	2.99	-0.50	0.50	RESULT (dB):	0.04
	3.39	-1.80	0.50	RESULT (dB):	-0.94
	3.59	******	0.50	RESULT (dB):	-7.03
	3.98	******	-28.00	RESULT (dB):	-31.63

MU-LAW Motorola 16kbps

GAIN A-A 4/52

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1
(0=NONE 1=40Hz)
LOWER LIMIT (dB): -0.50
UPPER LIMIT (dB): 0.50

CHAN	MEASUREMENT RESULTS			*IF FAIL
	RESULT (dB):	-0.02		

IDLE CHAN NOISE C-MES A-A 4/53

UPPER LIMIT (dBrnC0): 23.0

CHAN	MEASUREMENT RESULTS			*IF FAIL
	RESULT:	21.4		

QUANT DIST -tone A-A 4/54

FREQUENCY (kHz): 1.01

CHAN:	LEVEL (dBm0)	LOWER LIMIT (dB)	MEASUREMENT RESULTS			*IF FAIL
	-45.0	22.0	RESULT	(dB):	15.7	*Lower
			TX LEVEL	(dBm0):	-45.00	
	-40.0	27.0	RESULT	(dB):	18.3	*Lower
			TX LEVEL	(dBm0):	-40.00	
	-35.0	30.0	RESULT	(dB):	20.7	*Lower
			TX LEVEL	(dBm0):	-35.04	
	-30.0	33.0	RESULT	(dB):	23.6	*Lower
			TX LEVEL	(dBm0):	-29.95	
	-25.0	33.0	RESULT	(dB):	25.2	*Lower
			TX LEVEL	(dBm0):	-25.04	
	-20.0	33.0	RESULT	(dB):	26.6	*Lower
			TX LEVEL	(dBm0):	-19.95	
	-15.0	33.0	RESULT	(dB):	27.6	*Lower
			TX LEVEL	(dBm0):	-14.97	
	-10.0	33.0	RESULT	(dB):	27.9	*Lower
			TX LEVEL	(dBm0):	-9.97	
	-5.0	33.0	RESULT	(dB):	26.8	*Lower
			TX LEVEL	(dBm0):	-5.01	
	0.0	33.0	RESULT	(dB):	26.6	*Lower
			TX LEVEL	(dBm0):	-0.01	

MU-LAW Motorola 16kbps (Continued)

GAIN v LEVEL - tone A-A 4/55

FREQUENCY (kHz): 1.01
REF LEVEL (dBm0): -10.0
RX FILTER: 1
(0=NONE 1=40Hz 2=3kHz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	-55.0	-3.00	3.00	RESULT (dB):	-0.23
	-50.0	-1.00	1.00	RESULT (dB):	-0.24
	-45.0	-1.00	1.00	RESULT (dB):	-0.12
	-40.0	-0.50	0.50	RESULT (dB):	-0.09
	-35.0	-0.50	0.50	RESULT (dB):	-0.04
	-30.0	-0.50	0.50	RESULT (dB):	-0.06
	-25.0	-0.50	0.50	RESULT (dB):	0.04
	-20.0	-0.50	0.50	RESULT (dB):	-0.03
	-15.0	-0.50	0.50	RESULT (dB):	0.06
	-10.0	-0.50	0.50	RESULT (dB):	0.05
	-5.0	-0.50	0.50	RESULT (dB):	0.04
	0.0	-0.50	0.50	RESULT (dB):	0.04
	3.0	-0.50	0.50	RESULT (dB):	-0.31

GAIN v FREQUENCY A-A 4/56

FREQUENCY (kHz): 1.01
LEVEL (dBm0): 0.0
RX FILTER: 1 (0=NONE 1=40Hz)

CHAN:	LEVEL (dBm0)	LIMITS (dB) LOWER	UPPER	MEASUREMENT RESULTS	*IF FAIL
	0.06	******	-22.00	RESULT (dB):	-28.79
	0.21	******	0.50	RESULT (dB):	-0.51
	0.31	-0.50	0.50	RESULT (dB):	-0.02
	0.61	-0.50	0.50	RESULT (dB):	0.00
	0.91	-0.50	0.50	RESULT (dB):	0.04
	1.21	-0.50	0.50	RESULT (dB):	0.02
	1.51	-0.50	0.50	RESULT (dB):	0.04
	1.81	-0.50	0.50	RESULT (dB):	0.02
	2.11	-0.50	0.50	RESULT (dB):	-0.02
	2.41	-0.50	0.50	RESULT (dB):	-0.10
	2.71	-0.50	0.50	RESULT (dB):	-0.17
	2.99	-0.50	0.50	RESULT (dB):	-0.03
	3.39	-1.80	0.50	RESULT (dB):	-0.94
	3.59	******	0.50	RESULT (dB):	-7.03
	3.98	******	-28.00	RESULT (dB):	-31.65