



5RU Standard RF Chassis
(front view)

Passive Products

Plug-In PAD & EQs:

Plug-In PADs

Plug-In PAD Specifications

SPECIFICATIONS		MN0PAD	MN1PAD	MN2PAD	MN3PAD	MN4PAD	MN5PAD	MN10PAD
MEASUREMENT	FREQUENCY	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
ATTENUATION	5-10 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	10-50 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	50-200 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	200-550 MHz	+/- 0.1	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.5
	550-750 MHz	+/- 0.1	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.5
	750-860 MHz	+/- 0.1	+/- 0.4	+/- 0.4	+/- 0.4	+/- 0.4	+/- 0.6	+/- 0.6
	860-1000 MHz	+/- 0.1	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.6	+/- 0.6
RETURN LOSS (Min)	5-10 MHz	30	30	30	30	30	30	30
	10-50 MHz	30	30	30	30	30	30	30
	50-200 MHz	25	25	25	25	25	25	25
	200-550 MHz	25	25	25	25	25	25	20
	550-750 MHz	22	22	22	22	22	22	19
	750-860 MHz	22	22	22	22	22	22	18
	860-1000 MHz	20	20	20	20	20	20	18

NOTE:
Most popular PAD value specifications are shown. Values from 1 to 20 dB in 1 dB steps are also available.



Ordering Information

Part Number	Description
MN0PAD	0 dB Plug-in PAD (must order in quantities of 10)
MN*PAD	*dB Plug-in PAD (1 to 20 dB) (must order in quantities of 10)

RF & L-Band Signal Management

Plug-In PAD & EQs (cont'd):

Plug-In EQs: JXP Style

Plug-In EQs: JXP Style Specifications

SPECIFICATIONS		MN0EQ		MN1EQ		MN2EQ		MN3EQ		MN4EQ	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	5 MHz	0.1 +/- 0.1	0.1 +/- 0.05	1.5 +/- 0.2	1.5 +/- 0.1	2.4 +/- 0.2	2.4 +/- 0.1	3.5 +/- 0.2	3.5 +/- 0.1	4.5 +/- 0.3	4.5 +/- 0.2
	10 MHz	0.1 +/- 0.1	0.1 +/- 0.05	1.5 +/- 0.2	1.5 +/- 0.1	2.4 +/- 0.2	2.4 +/- 0.1	3.5 +/- 0.2	3.5 +/- 0.1	4.5 +/- 0.3	4.5 +/- 0.2
	50 MHz	0.1 +/- 0.1	0.1 +/- 0.05	1.5 +/- 0.2	1.5 +/- 0.1	2.4 +/- 0.2	2.4 +/- 0.1	3.5 +/- 0.2	3.5 +/- 0.1	4.5 +/- 0.3	4.5 +/- 0.2
	200 MHz	0.1 +/- 0.1	0.1 +/- 0.05	1.4 +/- 0.3	1.4 +/- 0.2	2.3 +/- 0.3	2.3 +/- 0.2	3.1 +/- 0.3	3.1 +/- 0.2	3.7 +/- 0.4	3.7 +/- 0.3
	550 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.2 +/- 0.3	1.2 +/- 0.2	1.7 +/- 0.3	1.7 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.6 +/- 0.4	1.6 +/- 0.3
	750 MHz	0.1 +/- 0.2	0.1 +/- 0.1	0.8 +/- 0.3	0.8 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2	1.0 +/- 0.4	1.0 +/- 0.3
	860 MHz	0.2 +/- 0.2	0.2 +/- 0.1	0.6 +/- 0.3	0.6 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.8 +/- 0.4	0.8 +/- 0.3
1000 MHz	0.2 +/- 0.2	0.2 +/- 0.1	0.4 +/- 0.4	0.4 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	
RETURN LOSS (Min)	5-10 MHz	30	32	28	32	28	30	30	34	30	34
	10-50 MHz	30	32	28	32	28	30	30	34	30	34
	50-200 MHz	25	26	22	24	22	24	22	24	22	24
	200-550 MHz	25	26	18	22	20	22	20	22	20	22
	550-750 MHz	22	24	18	22	20	22	20	22	20	22
	750-860 MHz	20	22	18	22	20	22	20	22	20	22
	860-1000 MHz	18	20	18	20	18	20	18	20	18	20

SPECIFICATIONS		MN5EQ		MN6EQ		MN7EQ		MN8EQ		MN9EQ	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	5 MHz	5.8 +/- 0.3	5.8 +/- 0.2	6.4 +/- 0.3	6.4 +/- 0.2	7.6 +/- 0.3	7.6 +/- 0.2	8.4 +/- 0.3	8.4 +/- 0.2	9.5 +/- 0.3	9.5 +/- 0.2
	10 MHz	5.8 +/- 0.3	5.8 +/- 0.2	6.4 +/- 0.3	6.4 +/- 0.2	7.6 +/- 0.3	7.6 +/- 0.2	8.4 +/- 0.3	8.4 +/- 0.2	9.5 +/- 0.3	9.5 +/- 0.2
	50 MHz	5.7 +/- 0.3	5.7 +/- 0.2	6.3 +/- 0.3	6.3 +/- 0.2	7.5 +/- 0.3	7.5 +/- 0.2	8.3 +/- 0.3	8.3 +/- 0.2	9.3 +/- 0.3	9.3 +/- 0.2
	200 MHz	5.0 +/- 0.3	5.0 +/- 0.2	5.2 +/- 0.3	5.2 +/- 0.2	6.1 +/- 0.3	6.1 +/- 0.2	6.6 +/- 0.3	6.6 +/- 0.2	7.0 +/- 0.3	7.0 +/- 0.2
	550 MHz	2.2 +/- 0.3	2.2 +/- 0.2	2.1 +/- 0.3	2.1 +/- 0.2	2.7 +/- 0.3	2.7 +/- 0.2	2.6 +/- 0.3	2.6 +/- 0.2	2.7 +/- 0.3	2.7 +/- 0.2
	750 MHz	1.2 +/- 0.4	1.2 +/- 0.3	1.2 +/- 0.4	1.2 +/- 0.3	1.7 +/- 0.4	1.7 +/- 0.3	1.5 +/- 0.4	1.5 +/- 0.3	1.5 +/- 0.4	1.5 +/- 0.3
	860 MHz	1.0 +/- 0.4	1.0 +/- 0.3	1.0 +/- 0.4	1.0 +/- 0.3	1.3 +/- 0.4	1.3 +/- 0.3	1.0 +/- 0.4	1.0 +/- 0.3	1.2 +/- 0.4	1.2 +/- 0.3
1000 MHz	0.6 +/- 0.4	0.6 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	0.8 +/- 0.4	0.8 +/- 0.3	0.7 +/- 0.4	0.7 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	
RETURN LOSS (Min)	5-10 MHz	30	34	30	34	28	32	28	32	30	40
	10-50 MHz	30	34	30	34	28	32	28	32	30	34
	50-200 MHz	24	26	24	26	22	24	22	24	20	22
	200-550 MHz	22	24	22	24	18	20	18	20	18	20
	550-750 MHz	22	24	22	24	18	20	18	20	18	20
	750-860 MHz	20	22	20	22	18	20	18	20	18	20
	860-1000 MHz	20	22	20	22	18	20	18	20	18	20

SPECIFICATIONS		MN10EQ		MN11EQ		MN12EQ		MN13EQ		MN14EQ	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	5 MHz	10.2 +/- 0.3	10.2 +/- 0.2	11.6 +/- 0.3	11.6 +/- 0.2	12.6 +/- 0.3	12.6 +/- 0.2	13.3 +/- 0.3	13.3 +/- 0.2	14.3 +/- 0.3	14.3 +/- 0.2
	10 MHz	10.2 +/- 0.3	10.2 +/- 0.2	11.6 +/- 0.3	11.6 +/- 0.2	12.6 +/- 0.3	12.6 +/- 0.2	13.3 +/- 0.3	13.3 +/- 0.2	14.3 +/- 0.3	14.3 +/- 0.2
	50 MHz	9.8 +/- 0.3	9.8 +/- 0.2	11.2 +/- 0.3	11.2 +/- 0.2	12.0 +/- 0.3	12.0 +/- 0.2	12.7 +/- 0.3	12.7 +/- 0.2	13.7 +/- 0.3	13.7 +/- 0.2
	200 MHz	7.2 +/- 0.3	7.2 +/- 0.2	7.9 +/- 0.3	7.9 +/- 0.2	8.2 +/- 0.3	8.2 +/- 0.2	8.8 +/- 0.3	8.8 +/- 0.2	9.6 +/- 0.3	9.6 +/- 0.2
	550 MHz	2.6 +/- 0.3	2.6 +/- 0.2	2.6 +/- 0.3	2.6 +/- 0.2	2.6 +/- 0.3	2.6 +/- 0.2	2.9 +/- 0.3	2.9 +/- 0.2	3.5 +/- 0.3	3.5 +/- 0.2
	750 MHz	1.4 +/- 0.4	1.4 +/- 0.3	1.4 +/- 0.4	1.4 +/- 0.3	1.3 +/- 0.4	1.3 +/- 0.3	1.5 +/- 0.4	1.5 +/- 0.3	2.0 +/- 0.4	2.0 +/- 0.3
	860 MHz	1.0 +/- 0.4	1.0 +/- 0.3	1.0 +/- 0.4	1.0 +/- 0.3	0.9 +/- 0.4	0.9 +/- 0.3	1.1 +/- 0.4	1.1 +/- 0.3	1.4 +/- 0.4	1.4 +/- 0.3
	1000 MHz	0.6 +/- 0.4	0.6 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	0.6 +/- 0.4	0.6 +/- 0.3	0.8 +/- 0.4	0.8 +/- 0.3	0.8 +/- 0.4	0.8 +/- 0.3
RETURN LOSS (Min)	5-10 MHz	30	40	30	32	30	40	30	45	30	40
	10-50 MHz	30	34	30	32	30	34	30	34	30	34
	50-200 MHz	20	22	20	22	20	22	20	22	20	22
	200-550 MHz	18	20	18	20	18	20	18	20	18	20
	550-750 MHz	18	20	18	20	18	20	18	20	18	20
	750-860 MHz	18	20	18	20	18	20	18	20	18	20
	860-1000 MHz	18	20	18	20	18	20	18	20	18	20

Plug-In PAD & EQs (cont'd):

Plug-In EQs: JXP Style Specifications (cont'd)

SPECIFICATIONS		MN15EQ		MN16EQ	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	5 MHz	15.4 +/- 0.3	15.4 +/- 0.2	16.2 +/- 0.3	16.2 +/- 0.2
	10 MHz	15.4 +/- 0.3	15.4 +/- 0.2	16.2 +/- 0.3	16.2 +/- 0.2
	50 MHz	14.7 +/- 0.3	14.7 +/- 0.2	15.4 +/- 0.3	15.4 +/- 0.2
	200 MHz	10.1 +/- 0.3	10.1 +/- 0.2	10.5 +/- 0.3	10.5 +/- 0.2
	550 MHz	3.7 +/- 0.3	3.7 +/- 0.2	3.9 +/- 0.3	3.9 +/- 0.2
	750 MHz	2.0 +/- 0.4	2.0 +/- 0.3	2.2 +/- 0.4	2.2 +/- 0.3
	860 MHz	1.5 +/- 0.4	1.5 +/- 0.3	1.6 +/- 0.4	1.6 +/- 0.3
RETURN LOSS (Min)	1000 MHz	0.8 +/- 0.4	0.8 +/- 0.3	0.8 +/- 0.4	0.8 +/- 0.3
	5-10 MHz	30	45	30	34
	10-50 MHz	30	34	30	34
	50-200 MHz	20	22	20	22
	200-550 MHz	18	20	18	20
	550-750 MHz	18	20	18	20
	750-860 MHz	18	20	18	20
860-1000 MHz	18	20	18	20	



Ordering Information

Part Number	Description
MN0EQ	0 dB Plug-in EQ (must order in quantities of 10)
MN*EQ	* dB Plug-in EQ (1 to 16 dB) (must order in quantities of 10)

Plug-In EQs: QAE Style

Plug-In EQs: QAE Style Specifications

SPECIFICATIONS		QAE-0		QAE750-1.5		QAE750-3.0		QAE750-4.5		QAE750-6.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.8 +/- 0.3	1.8 +/- 0.2	3.0 +/- 0.3	3.0 +/- 0.2	4.0 +/- 0.3	4.0 +/- 0.2	5.3 +/- 0.3	5.3 +/- 0.2
	200 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.6 +/- 0.3	1.6 +/- 0.2	2.6 +/- 0.3	2.6 +/- 0.2	3.0 +/- 0.3	3.0 +/- 0.2	3.9 +/- 0.3	3.9 +/- 0.2
	550 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.0 +/- 0.3	1.0 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.6 +/- 0.3	1.6 +/- 0.2	1.7 +/- 0.3	1.7 +/- 0.2
	750 MHz	0.2 +/- 0.2	0.2 +/- 0.1	0.9 +/- 0.3	0.9 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2
RETURN LOSS	50-750 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE750-7.5		QAE750-9.0		QAE750-10.5		QAE750-12.0		QAE750-13.5	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	6.4 +/- 0.3	6.4 +/- 0.2	7.5 +/- 0.3	7.5 +/- 0.2	8.8 +/- 0.3	8.8 +/- 0.2	9.9 +/- 0.3	9.9 +/- 0.2	10.9 +/- 0.3	10.9 +/- 0.2
	200 MHz	4.5 +/- 0.3	4.5 +/- 0.2	5.5 +/- 0.3	5.5 +/- 0.2	5.9 +/- 0.3	5.9 +/- 0.2	6.9 +/- 0.3	6.9 +/- 0.2	7.7 +/- 0.3	7.7 +/- 0.2
	550 MHz	1.9 +/- 0.3	1.9 +/- 0.2	2.0 +/- 0.3	2.0 +/- 0.2	2.2 +/- 0.3	2.2 +/- 0.2	2.5 +/- 0.3	2.5 +/- 0.2	2.8 +/- 0.3	2.8 +/- 0.2
	750 MHz	0.9 +/- 0.3	0.9 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2
RETURN LOSS	50-750 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE750-15.0		QAE750-16.5		QAE750-18.0		QAE750-19.5		QAE750-21.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	12.2 +/- 0.3	12.2 +/- 0.2	13.4 +/- 0.3	13.4 +/- 0.2	14.4 +/- 0.3	14.4 +/- 0.2	15.6 +/- 0.3	15.6 +/- 0.2	16.9 +/- 0.3	16.9 +/- 0.2
	200 MHz	8.2 +/- 0.3	8.2 +/- 0.2	9.0 +/- 0.3	9.0 +/- 0.2	10.1 +/- 0.3	10.1 +/- 0.2	10.6 +/- 0.3	10.6 +/- 0.2	11 +/- 0.3	11 +/- 0.2
	550 MHz	3.1 +/- 0.3	3.1 +/- 0.2	3.1 +/- 0.3	3.1 +/- 0.2	3.6 +/- 0.3	3.6 +/- 0.2	3.9 +/- 0.3	3.9 +/- 0.2	3.3 +/- 0.3	3.3 +/- 0.2
	750 MHz	1.2 +/- 0.3	1.2 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.2
RETURN LOSS	50-750 MHz	16	18	16	18	16	18	16	18	16	18

RF & L-Band Signal Management

Plug-In PAD & EQs (cont'd):

Plug-In EQs: QAE Style

Plug-In EQs: QAE Style Specifications (cont'd)

SPECIFICATIONS		QAE-0		QAE870-1.5		QAE870-3.0		QAE870-4.5		QAE870-6.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.8 +/- 0.3	1.8 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.2	4.1 +/- 0.2	4.1 +/- 0.1	5.3 +/- 0.3	5.3 +/- 0.2
	200 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.6 +/- 0.3	1.6 +/- 0.3	2.6 +/- 0.3	2.6 +/- 0.2	3.0 +/- 0.2	3.0 +/- 0.1	4.2 +/- 0.3	4.2 +/- 0.2
	550 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.2 +/- 0.3	1.2 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.7 +/- 0.3	1.7 +/- 0.2	2.3 +/- 0.3	2.3 +/- 0.2
	750 MHz	0.2 +/- 0.2	0.2 +/- 0.1	1.1 +/- 0.3	1.1 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.2 +/- 10.3	1.2 +/- 10.2	1.3 +/- 0.3	1.3 +/- 0.2
	870 MHz	0.2 +/- 0.2	0.2 +/- 0.1	1.0 +/- 0.3	1.0 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2
RETURN LOSS	50-870 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE870-7.5		QAE870-9.0		QAE870-10.5		QAE870-12.0		QAE870-13.5	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	6.0 +/- 0.3	6.0 +/- 0.2	7.3 +/- 0.3	7.3 +/- 0.2	8.7 +/- 0.3	8.7 +/- 0.2	10 +/- 0.3	10 +/- 0.2	10.8 +/- 0.3	10.8 +/- 0.2
	200 MHz	4.6 +/- 0.3	4.6 +/- 0.2	5.2 +/- 0.3	5.2 +/- 0.2	6.4 +/- 0.3	6.4 +/- 0.2	7.2 +/- 0.3	7.2 +/- 0.2	7.9 +/- 0.3	7.9 +/- 0.2
	550 MHz	2.3 +/- 0.3	2.3 +/- 0.2	2.5 +/- 0.3	2.5 +/- 0.2	3.1 +/- 0.3	3.1 +/- 0.2	3.2 +/- 0.3	3.2 +/- 0.2	3.3 +/- 0.3	3.3 +/- 0.2
	750 MHz	1.2 +/- 0.3	1.2 +/- 0.2	1.3 +/- 0.3	1.3 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2
	870 MHz	1.0 +/- 0.3	1.0 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.2
RETURN LOSS	50-870 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE870-15.0		QAE870-16.5		QAE870-18.0		QAE870-19.5		QAE870-21.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	12.2 +/- 0.3	12.2 +/- 0.2	12.7 +/- 0.3	12.7 +/- 0.2	13.6 +/- 0.3	13.6 +/- 0.2	14 +/- 0.3	14 +/- 0.2	15 +/- 0.3	15 +/- 0.2
	200 MHz	8.8 +/- 0.3	8.8 +/- 0.2	9.5 +/- 0.3	9.5 +/- 0.2	10.4 +/- 0.3	10.4 +/- 0.2	10.7 +/- 0.3	10.7 +/- 0.2	11.3 +/- 0.3	11.3 +/- 0.2
	550 MHz	4.2 +/- 0.3	4.2 +/- 0.2	4.4 +/- 0.3	4.4 +/- 0.2	4.7 +/- 0.3	4.7 +/- 0.2	4.7 +/- 0.3	4.7 +/- 0.2	4.5 +/- 0.3	4.5 +/- 0.2
	750 MHz	2.0 +/- 0.3	2.0 +/- 0.2	2.1 +/- 0.3	2.1 +/- 0.2	2.0 +/- 0.3	2.0 +/- 0.2	1.6 +/- 0.3	1.6 +/- 0.2	1.3 +/- 0.3	1.3 +/- 0.2
	870 MHz	1.2 +/- 0.3	1.2 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.5 +/- 0.3	0.5 +/- 0.2
RETURN LOSS	50-870 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE870-22.5		QAE870-24.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	16.5 +/- 0.3	16.5 +/- 0.2	17.6 +/- 0.3	17.6 +/- 0.2
	200 MHz	11.7 +/- 0.3	11.7 +/- 0.2	12.4 +/- 0.3	12.4 +/- 0.2
	550 MHz	4.6 +/- 0.3	4.6 +/- 0.2	4.8 +/- 0.3	4.8 +/- 0.2
	750 MHz	1.4 +/- 0.3	1.4 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2
	870 MHz	0.6 +/- 0.3	0.6 +/- 0.2	0.5 +/- 0.3	0.5 +/- 0.2
RETURN LOSS	50-870 MHz	16	18	16	18

SPECIFICATIONS		QAE-0		QAE1000-1.5		QAE1000-3.0		QAE1000-4.5		QAE1000-6.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.7 +/- 0.3	1.7 +/- 0.2	2.7 +/- 0.3	2.7 +/- 0.2	4.0 +/- 0.3	4.0 +/- 0.2	5.1 +/- 0.3	5.1 +/- 0.2
	200 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.5 +/- 0.3	1.5 +/- 0.2	2.2 +/- 0.3	2.2 +/- 0.2	3.2 +/- 0.3	3.2 +/- 0.2	4.0 +/- 0.3	4.0 +/- 0.2
	550 MHz	0.1 +/- 0.2	0.1 +/- 0.1	1.1 +/- 0.3	1.1 +/- 0.2	1.5 +/- 0.3	1.5 +/- 0.2	1.8 +/- 0.3	1.8 +/- 0.2	2.2 +/- 0.3	2.2 +/- 0.2
	750 MHz	0.2 +/- 0.2	0.2 +/- 0.1	0.9 +/- 0.3	0.9 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.2	1.1 +/- 0.3	1.1 +/- 0.2	1.3 +/- 0.3	1.3 +/- 0.2
	870 MHz	0.2 +/- 0.2	0.2 +/- 0.1	0.8 +/- 0.3	0.8 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2
	1000 MHz	0.3 +/- 0.2	0.3 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2
RETURN LOSS	50-1000 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE1000-7.5		QAE1000-9.0		QAE1000-10.5		QAE1000-12.0		QAE1000-13.5	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	6.3 +/- 0.3	6.3 +/- 0.2	7.7 +/- 0.3	7.7 +/- 0.2	8.7 +/- 0.3	8.7 +/- 0.2	10 +/- 0.3	10 +/- 0.2	11 +/- 0.3	11 +/- 0.2
	200 MHz	5.0 +/- 0.3	5.0 +/- 0.2	5.5 +/- 0.3	5.5 +/- 0.2	6.4 +/- 0.3	6.4 +/- 0.2	7.2 +/- 0.3	7.2 +/- 0.2	8.1 +/- 0.3	8.1 +/- 0.2
	550 MHz	2.7 +/- 0.3	2.7 +/- 0.2	3.1 +/- 0.3	3.1 +/- 0.2	3.5 +/- 0.3	3.5 +/- 0.2	3.7 +/- 0.3	3.7 +/- 0.2	4.2 +/- 0.3	4.2 +/- 0.2
	750 MHz	1.6 +/- 0.3	1.6 +/- 0.2	1.9 +/- 0.3	1.9 +/- 0.2	2.0 +/- 0.3	2.0 +/- 0.2	2.1 +/- 0.3	2.1 +/- 0.2	2.5 +/- 0.3	2.5 +/- 0.2
	870 MHz	1.0 +/- 0.3	1.0 +/- 0.2	1.3 +/- 0.3	1.3 +/- 0.2	1.2 +/- 0.3	1.2 +/- 0.2	1.3 +/- 0.3	1.3 +/- 0.2	1.4 +/- 0.3	1.4 +/- 0.2
	1000 MHz	0.6 +/- 0.3	0.6 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.6 +/- 0.3	0.6 +/- 0.2
RETURN LOSS	50-1000 MHz	16	18	16	18	16	18	16	18	16	18

Plug-In PAD & EQs (cont'd):

Plug-In EQs: QAE Style

Plug-In EQs: QAE Style Specifications (cont'd)

SPECIFICATIONS		QAE1000-15.0		QAE1000-16.5		QAE1000-18.0		QAE1000-19.5		QAE1000-21.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	12.2 +/- 0.3	12.2 +/- 0.2	13.5 +/- 0.3	13.5 +/- 0.2	14.6 +/- 0.3	14.6 +/- 0.2	15.6 +/- 0.3	15.6 +/- 0.2	16.9 +/- 0.3	16.9 +/- 0.2
	200 MHz	8.7 +/- 0.3	8.7 +/- 0.2	9.6 +/- 0.3	9.6 +/- 0.2	10.4 +/- 0.3	10.4 +/- 0.2	11.2 +/- 0.3	11.2 +/- 0.2	12.1 +/- 0.3	12.1 +/- 0.2
	550 MHz	4.7 +/- 0.3	4.7 +/- 0.2	5 +/- 0.3	5 +/- 0.2	5.5 +/- 0.3	5.5 +/- 0.2	5.8 +/- 0.3	5.8 +/- 0.2	6.1 +/- 0.3	6.1 +/- 0.2
	750 MHz	2.8 +/- 0.3	2.8 +/- 0.2	3 +/- 0.3	3 +/- 0.2	3.2 +/- 0.3	3.2 +/- 0.2	3.3 +/- 0.3	3.3 +/- 0.2	3.5 +/- 0.3	3.5 +/- 0.2
	870 MHz	1.7 +/- 0.3	1.7 +/- 0.2	1.6 +/- 0.3	1.6 +/- 0.2	1.9 +/- 0.3	1.9 +/- 0.2	2.0 +/- 0.3	2.0 +/- 0.2	2.1 +/- 0.3	2.1 +/- 0.2
	1000 MHz	0.7 +/- 0.3	0.7 +/- 0.2	0.5 +/- 0.3	0.5 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.2
RETURN LOSS	50-1000 MHz	16	18	16	18	16	18	16	18	16	18

SPECIFICATIONS		QAE1000-22.5		QAE1000-24.0	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
EQUALIZATION & FLATNESS	50 MHz	17.9 +/- 0.3	17.9 +/- 0.2	19.3 +/- 0.3	19.3 +/- 0.2
	200 MHz	12.8 +/- 0.3	12.8 +/- 0.2	14 +/- 0.3	14 +/- 0.2
	550 MHz	6.5 +/- 0.3	6.5 +/- 0.2	7.3 +/- 0.3	7.3 +/- 0.2
	750 MHz	3.6 +/- 0.3	3.6 +/- 0.2	4.1 +/- 0.3	4.1 +/- 0.2
	870 MHz	2.0 +/- 0.3	2.0 +/- 0.2	2.4 +/- 0.3	2.4 +/- 0.2
	1000 MHz	0.7 +/- 0.3	0.7 +/- 0.2	1.0 +/- 0.3	1.0 +/- 0.2
RETURN LOSS	50-1000 MHz	16	18	16	18



* is EQ value from
1.5 to 21 dB in 1.5 dB steps

Ordering Information

Part Number	Description
QAE 550-***	Aug Style EQ, Tall Handle (1.5 to 21 dB in increments of 1.5) (must order in quantities of 10)
QAE 550-00	Use QAE 870-00 (must order in quantities of 10)
QAE 750-***	Aug EQ, 750 MHz (1.5 to 21 dB in increments of 1.5) (must order in quantities of 10)
QAE 870-***	Aug EQ, 870 MHz (1.5 to 21 dB in increments of 1.5) (must order in quantities of 10)
QAE 870-00	Aug EQ, 870 MHz (must order in quantities of 10)
QAE 1000-***	Aug EQ, 1000 MHz (1.5 to 21 dB in increments of 1.5) (must order in quantities of 10)
QAER 860-03V	EQ, -ADJ..RESP., 860 MHz, 3 dB Slope (must order in quantities of 10)

Specifications subject to change without notice.
MAXNET specifications are only valid when ATX
plug-in pads & EQs are used.

