

MAXNET®



Patented
U.S.# 6,842,348;
Cdn.# 2,404,844

5RU Standard RF Chassis
(front view)

D3.1/CCAP™
Compliant

Pads / EQs / Connectors / Accessories

Plug-in Pad & EQs

Ordering Information

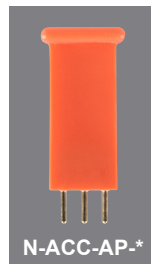
Pads & EQs (JXP-style)

Part Number	Description
MN*PAD	Plug-in Pad (* = 0-20 dB in 1 dB steps) (must order in quantities of 10), see specifications on page 2
N-ACC-AP-*	Plug-in Pad (* = 0-26 dB) (one piece N-ACC-AP-* = 25 pads) SignalOn® JXP pads can be used in MAXNET® modules (see SignalOn Accessories data sheet (#ANW1105) for details)
MN*EQ	Cable Tilt Forward Plug-in EQ (* = 1-16 dB) (must order in quantities of 10), see specifications on pages 2-3
N-ACC-LE-*	Plug-in EQ (* = 2-13 dB) SignalOn JXP EQs can be used in MAXNET modules (see SignalOn Accessories data sheet (#ANW1105) for details)
JXP EQL-1000-**.*	Linear Forward Path JXP Plug-in EQ, 1000 MHz (* = 2-8 dB) (must order in quantities of 10), see specifications on page 3
JXPEQL85-*	Linear Return Path JXP Plug-in EQ, 85 MHz (* = 2, 4, 6 or 8 dB) (must order in quantities of 10), see specifications on page 3



MN*PAD

* = Pad Value



N-ACC-AP-*

* = Pad Value



MN*EQ

* = EQ Value



N-ACC-LE-*

* = EQ Value



JXP EQL-1000-**.*/
JXPEQL85-*

* = EQ Value



JXPEQL85-*

* = EQ Value

Ordering Information

EQs (QAE-style)

Part Number	Description (must order in quantities of 10)
QAE-00	Aug EQ, 1 GHz, see specifications on page 4
QAE 550-**.*	Aug EQ, Tall Handle (1.5-21 dB in increments of 1.5)
QAE 750-**.*	Aug-style EQ, 750 MHz (1.5-21 dB in increments of 1.5), see specifications on page 4
QAE 860-**.*	Aug-style EQ, 860 MHz (1.5-24 dB in increments of 1.5), see specifications on page 4
QAE 1000-**.*	Aug-style EQ, 1000 MHz (1.5-24 dB in increments of 1.5), see specifications on page 5
QAER 860-03V	EQ, -ADJ.RESP., 860 MHz, 3 dB Slope



QAE 860-**.*/
QAE 1000-**.*/
QAER 860-03V

* is EQ value from 1.5-24 dB
in 1.5 dB steps

Specifications

Plug-in Pads (JXP-style)

		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 1-20 dB in 1 dB steps are also available.

Specifications

Plug-in EQs (Cable Tilt Forward JXP-style)

		MN1EQ	MN2EQ	MN3EQ	MN4EQ	MN5EQ	MN6EQ	MN7EQ	MN8EQ
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	5 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.8 +/- 0.3	6.4 +/- 0.3	7.6 +/- 0.3	8.4 +/- 0.3
	10 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.8 +/- 0.3	6.4 +/- 0.3	7.6 +/- 0.3	8.4 +/- 0.3
	50 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.7 +/- 0.3	6.3 +/- 0.3	7.5 +/- 0.3	8.3 +/- 0.3
	200 MHz	1.4 +/- 0.3	2.3 +/- 0.3	3.1 +/- 0.3	3.7 +/- 0.4	5 +/- 0.3	5.2 +/- 0.3	6.1 +/- 0.3	6.6 +/- 0.3
	550 MHz	1.2 +/- 0.3	1.7 +/- 0.3	1.5 +/- 0.3	1.6 +/- 0.4	2.2 +/- 0.3	2.1 +/- 0.3	2.7 +/- 0.3	2.6 +/- 0.3
	750 MHz	0.8 +/- 0.3	1.2 +/- 0.3	1 +/- 0.3	1 +/- 0.4	1.2 +/- 0.4	1.2 +/- 0.4	1.7 +/- 0.4	1.5 +/- 0.4
	860 MHz	0.6 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.4	1 +/- 0.4	1 +/- 0.4	1.3 +/- 0.4	1 +/- 0.4
	1000 MHz	0.4 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.8 +/- 0.4	0.7 +/- 0.4
RETURN LOSS (Min)	5-10 MHz	28	28	30	30	30	30	28	28
	10-50 MHz	28	28	30	30	30	30	28	28
	50-200 MHz	22	22	22	22	24	24	22	22
	200-550 MHz	18	20	20	20	22	22	18	18
	550-750 MHz	18	20	20	20	22	22	18	18
	750-860 MHz	18	20	20	20	20	20	18	18
	860-1000 MHz	18	18	18	18	20	20	18	18

Specifications

Plug-in EQs (Cable Tilt Forward JXP-style)

		MN9EQ	MN10EQ	MN11EQ	MN12EQ	MN13EQ	MN14EQ	MN15EQ	MN16EQ
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	5 MHz	9.5 +/- 0.3	10.2 +/- 0.3	11.6 +/- 0.3	12.6 +/- 0.3	13.3 +/- 0.3	14.3 +/- 0.3	15.4 +/- 0.3	16.2 +/- 0.3
	10 MHz	9.5 +/- 0.3	10.2 +/- 0.3	11.6 +/- 0.3	12.6 +/- 0.3	13.3 +/- 0.3	14.3 +/- 0.3	15.4 +/- 0.3	16.2 +/- 0.3
	50 MHz	9.3 +/- 0.3	9.8 +/- 0.3	11.2 +/- 0.3	12 +/- 0.3	12.7 +/- 0.3	13.7 +/- 0.3	14.7 +/- 0.3	15.4 +/- 0.3
	200 MHz	7 +/- 0.3	7.2 +/- 0.3	7.9 +/- 0.3	8.2 +/- 0.3	8.8 +/- 0.3	9.6 +/- 0.3	10.1 +/- 0.3	10.5 +/- 0.3
	550 MHz	2.7 +/- 0.3	2.6 +/- 0.3	2.6 +/- 0.3	2.6 +/- 0.3	2.9 +/- 0.3	3.5 +/- 0.3	3.7 +/- 0.3	3.9 +/- 0.3
	750 MHz	1.5 +/- 0.4	1.4 +/- 0.4	1.4 +/- 0.4	1.3 +/- 0.4	1.5 +/- 0.4	2 +/- 0.4	2 +/- 0.4	2.2 +/- 0.4
	860 MHz	1.2 +/- 0.4	1 +/- 0.4	1 +/- 0.4	0.9 +/- 0.4	1.1 +/- 0.4	1.4 +/- 0.4	1.5 +/- 0.4	1.6 +/- 0.4
	1000 MHz	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4
RETURN LOSS (Min)	5-10 MHz	30	30	30	30	30	30	30	30
	10-50 MHz	30	30	30	30	30	30	30	30
	50-200 MHz	20	20	20	20	20	20	20	20
	200-550 MHz	18	18	18	18	18	18	18	18
	550-750 MHz	18	18	18	18	18	18	18	18
	750-860 MHz	18	18	18	18	18	18	18	18
	860-1000 MHz	18	18	18	18	18	18	18	18

Specifications

Plug-in EQs (Linear Forward JXP-style)

PART NUMBER	EQ VALUES	SLOPE 1000/45 MHz	PERMISSION TOLERANCE	INSERTION LOSS	EQ TOLERANCE	RETURN LOSS	IMPEDANCE
JXP EQL-1000-02.0	2 dB	1 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-03.0	3 dB	2 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-04.0	4 dB	3 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-05.0	5 dB	4 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-06.0	6 dB	5 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-07.0	7 dB	6 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-08.0	8 dB	7 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω

Specifications

Plug-in EQs (Linear Return JXP-style)

PART NUMBER	INSERTION LOSS (dB)		LINEARITY (dB)	RETURN LOSS (dB)
	5 MHz	85 MHz	5-85 MHz	5-85 MHz
JXPEQL85-2	2.5	0.5	0.3	≥ 20
JXPEQL85-4	4.5	0.5	0.3	≥ 20
JXPEQL85-6	6.5	0.5	0.3	≥ 20
JXPEQL85-8	8.5	0.5	0.3	≥ 20

Specifications

Plug-in EQs (QAE-style)		QAE-00	QAE750-1.5	QAE750-3.0	QAE750-4.5	QAE750-6.0	QAE750-7.5	QAE750-9.0	QAE750-10.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.8 +/- 0.3	3 +/- 0.3	4 +/- 0.3	5.3 +/- 0.3	6.4 +/- 0.3	7.5 +/- 0.3	8.8 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.6 +/- 0.3	2.6 +/- 0.3	3 +/- 0.3	3.9 +/- 0.3	4.5 +/- 0.3	5.5 +/- 0.3	5.9 +/- 0.3
	550 MHz	0.1 +/- 0.2	1 +/- 0.3	1.5 +/- 0.3	1.6 +/- 0.3	1.7 +/- 0.3	1.9 +/- 0.3	2 +/- 0.3	2.2 +/- 0.3
	750 MHz	0.2 +/- 0.2	0.9 +/- 0.3	1.1 +/- 0.3	1 +/- 0.3	1.1 +/- 0.3	0.9 +/- 0.3	1 +/- 0.3	1.1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	--	--	--	--	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE750-12.0	QAE750-13.5	QAE750-15.0	QAE750-16.5	QAE750-18.0	QAE750-19.5	QAE750-21.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	9.9 +/- 0.3	10.9 +/- 0.3	12.2 +/- 0.3	13.4 +/- 0.3	14.4 +/- 0.3	15.6 +/- 0.3	16.9 +/- 0.3
	200 MHz	6.9 +/- 0.3	7.7 +/- 0.3	8.2 +/- 0.3	9 +/- 0.3	10.1 +/- 0.3	10.6 +/- 0.3	11 +/- 0.3
	550 MHz	2.5 +/- 0.3	2.8 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.6 +/- 0.3	3.9 +/- 0.3	3.3 +/- 0.3
	750 MHz	0.8 +/- 0.3	1.1 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	0.9 +/- 0.3
RETURN LOSS	50-750 MHz	16	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE-00	QAE860-1.5	QAE860-3.0	QAE860-4.5	QAE860-6.0	QAE860-7.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.8 +/- 0.3	3.1 +/- 0.3	4.1 +/- 0.2	5.3 +/- 0.3	6 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.6 +/- 0.3	2.6 +/- 0.3	3 +/- 0.2	4.2 +/- 0.3	4.6 +/- 0.3
	550 MHz	0.1 +/- 0.2	1.2 +/- 0.3	1.5 +/- 0.3	1.7 +/- 0.3	2.3 +/- 0.3	2.3 +/- 0.3
	750 MHz	0.2 +/- 0.2	1.1 +/- 0.3	1.2 +/- 0.3	1.2 +/- 10.3	1.3 +/- 0.3	1.2 +/- 0.3
	860 MHz	0.2 +/- 0.2	1 +/- 0.3	1.1 +/- 0.3	1.1 +/- 0.3	1.1 +/- 0.3	1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	--	--	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE860-9.0	QAE860-10.5	QAE860-12.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	7.3 +/- 0.3	8.7 +/- 0.3	10 +/- 0.3
	200 MHz	5.2 +/- 0.3	6.4 +/- 0.3	7.2 +/- 0.3
	550 MHz	2.5 +/- 0.3	3.1 +/- 0.3	3.2 +/- 0.3
	750 MHz	1.3 +/- 0.3	1.5 +/- 0.3	1.5 +/- 0.3
	860 MHz	1 +/- 0.3	1.1 +/- 0.3	0.8 +/- 0.3
	1000 MHz	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE860-13.5	QAE860-15.0	QAE860-16.5	QAE860-18.0	QAE860-19.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	10.8 +/- 0.3	12.2 +/- 0.3	12.7 +/- 0.3	13.6 +/- 0.3	14 +/- 0.3
	200 MHz	7.9 +/- 0.3	8.8 +/- 0.3	9.5 +/- 0.3	10.4 +/- 0.3	10.7 +/- 0.3
	550 MHz	3.3 +/- 0.3	4.2 +/- 0.3	4.4 +/- 0.3	4.7 +/- 0.3	4.7 +/- 0.3
	750 MHz	1.5 +/- 0.3	2 +/- 0.3	2.1 +/- 0.3	2 +/- 0.3	1.6 +/- 0.3
	860 MHz	0.9 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.1 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-860 MHz	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE860-21.0	QAE860-22.5	QAE860-24.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	15 +/- 0.3	16.5 +/- 0.3	17.6 +/- 0.3
	200 MHz	11.3 +/- 0.3	11.7 +/- 0.3	12.4 +/- 0.3
	550 MHz	4.5 +/- 0.3	4.6 +/- 0.3	4.8 +/- 0.3
	750 MHz	1.3 +/- 0.3	1.4 +/- 0.3	1.5 +/- 0.3
	860 MHz	0.5 +/- 0.3	0.6 +/- 0.3	0.5 +/- 0.3
RETURN LOSS	50-860 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE-00	QAE1000-1.5	QAE1000-3.0	QAE1000-4.5	QAE1000-6.0	QAE1000-7.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.7 +/- 0.3	2.7 +/- 0.3	4 +/- 0.3	5.1 +/- 0.3	6.3 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.5 +/- 0.3	2.2 +/- 0.3	3.2 +/- 0.3	4 +/- 0.3	5 +/- 0.3
	550 MHz	0.1 +/- 0.2	1.1 +/- 0.3	1.5 +/- 0.3	1.8 +/- 0.3	2.2 +/- 0.3	2.7 +/- 0.3
	750 MHz	0.2 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.3	1.1 +/- 0.3	1.3 +/- 0.3	1.6 +/- 0.3
	870 MHz	0.2 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.3	0.9 +/- 0.3	1 +/- 0.3	1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.3	0.6 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE1000-9.0	QAE1000-10.5	QAE1000-12.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	7.7 +/- 0.3	8.7 +/- 0.3	10 +/- 0.3
	200 MHz	5.5 +/- 0.3	6.4 +/- 0.3	7.2 +/- 0.3
	550 MHz	3.1 +/- 0.3	3.5 +/- 0.3	3.7 +/- 0.3
	750 MHz	1.9 +/- 0.3	2 +/- 0.3	2.1 +/- 0.3
	870 MHz	1.3 +/- 0.3	1.2 +/- 0.3	1.3 +/- 0.3
	1000 MHz	0.8 +/- 0.3	0.7 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE1000-13.5	QAE1000-15.0	QAE1000-16.5	QAE1000-18.0	QAE1000-19.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	11 +/- 0.3	12.2 +/- 0.3	13.5 +/- 0.3	14.6 +/- 0.3	15.6 +/- 0.3
	200 MHz	8.1 +/- 0.3	8.7 +/- 0.3	9.6 +/- 0.3	10.4 +/- 0.3	11.2 +/- 0.3
	550 MHz	4.2 +/- 0.3	4.7 +/- 0.3	5 +/- 0.3	5.5 +/- 0.3	5.8 +/- 0.3
	750 MHz	2.5 +/- 0.3	2.8 +/- 0.3	3 +/- 0.3	3.2 +/- 0.3	3.3 +/- 0.3
	870 MHz	1.4 +/- 0.3	1.7 +/- 0.3	1.6 +/- 0.3	1.9 +/- 0.3	2 +/- 0.3
	1000 MHz	0.6 +/- 0.3	0.7 +/- 0.3	0.5 +/- 0.3	0.7 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE1000-21.0	QAE1000-22.5	QAE1000-24.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	16.9 +/- 0.3	17.9 +/- 0.3	19.3 +/- 0.3
	200 MHz	12.1 +/- 0.3	12.8 +/- 0.3	14 +/- 0.3
	550 MHz	6.1 +/- 0.3	6.5 +/- 0.3	7.3 +/- 0.3
	750 MHz	3.5 +/- 0.3	3.6 +/- 0.3	4.1 +/- 0.3
	870 MHz	2.1 +/- 0.3	2 +/- 0.3	2.4 +/- 0.3
	1000 MHz	0.8 +/- 0.3	0.7 +/- 0.3	1 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16

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MAXNET specifications are only valid when ATX plug-in pads and EQs are used.

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