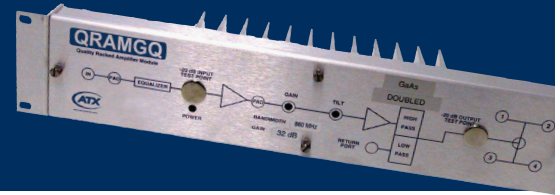


Q-SERIES® Amplifiers

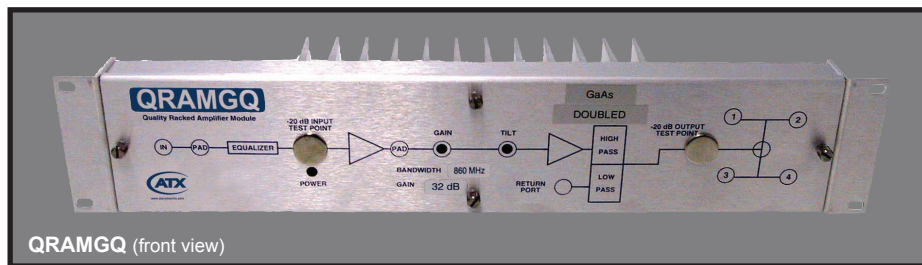
Headend Amplifiers



GRAMGQ 48 dBmV Output Amplifier:

Features:

- ▶ QRAM 870 & 1000 MHz amplifiers
- ▶ Uses QUADRA-Power GaAs for high output
- ▶ Up to 38 dB gain
- ▶ Better than -70 CTB & CSO at 48 dBmV output
- ▶ Variable gain & tilt controls
- ▶ Plug-in splitters & diplex filter
- ▶ Utilizes external 120 to 26 VAC class 2, 60 Hz UL power transformer (one included per QRAMGQ)
- ▶ Universal power options
- ▶ Standard 19" rack-mount chassis, 2RU



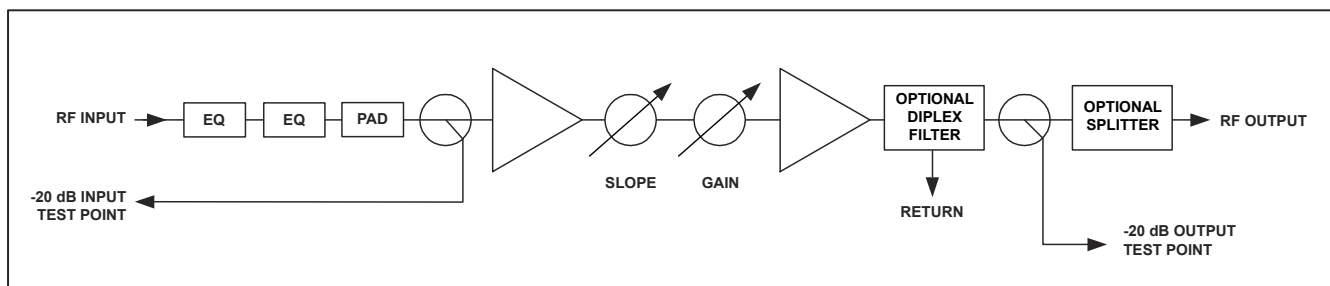
GRAMGQ Specifications

PART NUMBER	GAIN		GAIN & SLOPE CONTROL ⁽¹⁾	TEST POINTS	RETURN LOSS	DISTORTION PERFORMANCE ^(3,4)			NOISE FIGURE ⁽⁴⁾	OPERATING CURRENT ⁽²⁾
	BW (MHz)	GAIN (dB)				INPUT / INTERSTAGE	I/O (dB)	I/O (dB)		
GRAMGQ870-33CGP	40-870	33 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.1	-70.8	6.5	1320
GRAMGQ870-35CGP	40-870	35 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.0	-70.8	6.5	1320
GRAMGQ870-38CGP	40-870	38 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.0	-70.8	6.5	1320
GRAMGQ1000-33CGP	40-1000	33 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.1	-70.8	6.5	1320
GRAMGQ1000-35CGP	40-1000	35 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.0	-70.8	6.5	1320
GRAMGQ1000-38CGP	40-1000	38 +/- 1.0	Plug-in / Variable	20 +/- 1.0	16	48	-70.0	-70.8	6.5	1320

NOTES:

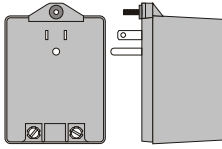
- (1) See functional schematics.
- (2) DC load current at 24 VDC.
- (3) Distortions measured with 50-550 MHz analog CW (6 MHz spacing) and 550-1000 MHz noise at -6dBc (average power per 6 MHz).
- (4) Specified with 0 dB plug-in attenuators and 0 dB plug-in EQs.

Functional Schematic



QRAMGQ 48 dBmV Output Amplifier:

Ordering Information

Example Part Number:	
QRAMGQ870-33CGP 1 2	
1. Frequency: 870 = 870 MHz 1000 = 1000 MHz	
2: Gain: See Specifications table.	
Part Number	Description
Options & Spares	
QRAM870-2S	2-way Splitter, 870 MHz
QRAM870-4S	4-way Splitter, 870 MHz
QRAM870-42/54-DF	Diplex Filter, 5-42 MHz
QRAM870-62/85-DF	Diplex Filter, 5-62 MHz
QRAM1000-2S	2-way Splitter, 1000 MHz
QRAM1000-4S	4-way Splitter, 1000 MHz
QRAM1000-42/54-DF	Diplex Filter, 5-42 MHz
QRAM1000-65/85-DF	Diplex Filter, 5-65 MHz
MN**EQ	1000 MHz EQs, ** = 0-12 dB in 1 dB steps
QLX870-**L	Linear 870 MHz EQs, ** = 0-24 dB in 2 dB steps
SXP-TY-**	Plug-in Pad, ** = 0-20 dB in 1 dB steps
#951	120 Volts to 26 Volts, 60 Hz AC Power Transformer, 50 VA Rating (included)
#951 Transformer 	
DTS240250UC-P5-ET	External Universal AC Power Supply, 100-240 VAC, 47-63 Hz Input, 24 VDC Output
Shipping Weight	8.0 lbs (3.63 kg)
Dimensions	3.5"H x 19.0"W x 3.4"D (8.89H x 48.26W x 8.64D cm)

Specifications subject to change without notice.

