



QDAXS 870 Distribution Amplifier:

Features:

- ▶ 870 MHz, 2-way models
- ▶ Updated versions of ATX's standard MDU fully 2-way amplifiers with more bandwidth & higher slope capability
- ▶ Amplifier options: Silicon power-doubled, Silicon quadra-powered, GaAs power-doubled, & cascaded GaAs power-doubled technology
- ▶ Power-doubled versions provide 3.0 dBmV additional output over conventional push-pull types
- ▶ Quadra-powered versions provide 5.0 additional output over conventional push-pull types
- ▶ Built-in fixed interstage equalization & interstage slope & gain controls allows up to 10 dB of output slope
- ▶ Plug-in pads & EQs are used at the amplifier input to provide uniform carrier-to-noise performance at all frequencies
- ▶ Plug-in hybrids & accessories includes external Class II UL approved power transformer
- ▶ Variable gain & tilt controls
- ▶ 5-40 MHz, 2-way return path has a sweep insertion test point & plug-in pads & EQ
- ▶ Optional return amplifier activated by inserting return hybrid IC
- ▶ Maximum total loop gain of 55 dB recommended for 2-way amplifiers
- ▶ Housing provides efficient thermal capability & stringent RFI shielding
- ▶ Operates safely at ambient temperatures of +120°F (+48°C)
- ▶ Meets FCC CLI regulations

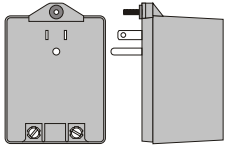


QDAXS Specifications

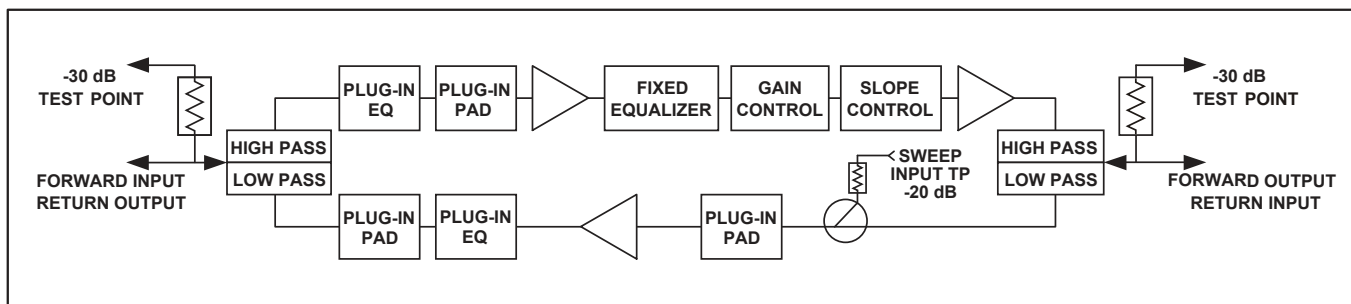
SPECIFICATIONS	870 2-WAY				RETURN AMPLIFIERS	
	Power-Doubled	Quadra-Power	GaAs GP	GaAs CGP	Standard Push-Pull	Low Current Push-Pull
BANDWIDTH	54-870 MHz	54-870 MHz	54-870 MHz	54-870 MHz	5-40 MHz	5-40 MHz
FREQUENCY RESPONSE	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 1.5 dB	+/- 1.5 dB
GAINS AVAILABLE (dB)	30, 33, 36	27, 31	29, 33, 36	31, 34, 36	16, 20	16, 23
CHANNEL LOADING	128	128	128	132	6	6
RETURN LOSS (Worst Case)	14 dB	14 dB	14 dB	14 dB	16 dB	16 dB
GAIN CONTROL RANGE	3	3	3	3	6	6
SLOPE CONTROL RANGE	+/- 2	+/- 2	+/- 2	+/- 2	n/a	n/a
OUTPUT LEVELS (dBmV)	44/34	44/34	44/34	51/41	48	48
DISTORTIONS	CROSS MODULATION (-dB)	n/a	n/a	n/a	79	63
	COMP. TR. BT. (-dB)	63	66	71	60	n/a
	COMP. 2nd ORD. (-dB)	67	68	69	64	70 ⁽²⁾
NOISE FIGURE	7 dB	7 dB	7 dB	6.5 dB	8 dB	6 dB
DC AMPERES @ 24 VDC	0.66	1.10	0.66	0.79	0.22	0.13
POWER DISSIPATION (Watts) ⁽¹⁾	27	44	27	32	8	5
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)					
HUMIDITY	20%-55% (without condensation)					
DIMENSIONS	9.13H" x 7.0"W x 3.56"D (23.19H x 17.78W x 9.04D cm)					
WEIGHT	7.5 lbs (3.4 kg)					
NOTES:						
(1) Power dissipation measured at 120V input to UL approved power transformer. DC amperes is internal voltage regulator load.						
(2) QDAXRA-23 specification is for discrete second order beats - not composite second order.						

QDAXS 870 Distribution Amplifier:

Ordering Information

Example Part Number: QDAXS870 - 33 P 2W	
	1 2 3
1: Frequency: 870 = 870 MHz	
2: Gain (See Specifications Table)	
3: Output Technology: P = Power-Doubled	
Q = Quadra-Power	
GP = GaAs Power-Doubled	
CGP = Cascaded GaAs Power-Doubled	
Part Number	Description
Options & Spares	
QDAXRA-16	16 dB Return Amplifier
QDAXRA-16L	16 dB Return Amplifier
QDAXRA-20	20 dB Return Amplifier
QDAXRA-23L	23 dB Return Amplifier
QLX 870-dB	Forward EQ Values from 0-24 dB in 2.0 dB steps
QEE 42-dB	Reverse EQ Value
SXP-TY-**	Plug-in Attenuator Pads, ** = 0-20 dB in 1 dB steps
#951	120 Volts to 26 Volts, 60 Hz AC Power Transformer, 50 VA Rating (included with QDAX)
#951 Transformer 	
EPS 267 ND	External Universal AC Power Supply, 100-240 VAC, 50-60 Hz Input, 24 VDC Output
NOTES: All 2-way amplifiers with a forward gain of 35 dB or more require the use of QDAXRA-16 return amplifiers only. Quadra-powered amplifiers must use QDAXRA-**L return amplifiers only.	

Functional Schematic



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Specifications subject to change without notice.

