



QDAX 450 & 550 Distribution Amplifier:

Features:

- ▶ 450-550 MHz, 1-way or 2-way models
- ▶ 5 to 30 MHz return bandwidth
- ▶ High performance versions of ATX's standard MDU amplifier
- ▶ Available in variety of hybrid technology & gain output options
- ▶ Push-pull, power-doubled, & quadra-power technology
- ▶ Power-doubled versions provide 3.0 dBmV additional output levels over conventional push-pull types while quadra-powered versions provide an additional 6.0 dBmV
- ▶ Plug-in hybrids & accessories
- ▶ Variable pin diode tilt & gain controls
- ▶ Plug-in pads & EQs available at amplifier input to provide more uniform carrier-to-noise performance at all frequencies
- ▶ 2-way return path has variable gain control with provision for plug-in pad & EQ
- ▶ Optional return amplifier activated by inserting return hybrid IC
- ▶ Quadra-powered amplifiers require the QDAXRA-23L or QDAXRA-16L low current hybrid for the return amplifier
- ▶ Housing provides efficient thermal capability & stringent RFI shielding
- ▶ Meets FCC CLI regulations
- ▶ Includes external Class II UL approved power transformer



QDAX 450 & 550 Specifications

SPECIFICATIONS	450		550 2-WAY			RETURN AMP	
	Push-Pull 1-Way	Push-Pull 2-Way	Push-Pull	Power-Doubled	Quadra-Power		
BANDWIDTH (MHz)	54 to 450	54 to 450	54 to 550	54 to 550	54 to 550	5 to 30	
FREQUENCY RESPONSE	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 1.5 dB	
GAINS AVAILABLE (dB)	38, 43, 50	38, 43, 50	31, 35, 38, 43, 50	31, 35, 38, 43	31, 35, 38, 43	16, 20, (23)	
CHANNEL LOADING	60	60	77	77	77	4	
RETURN LOSS (Worst Case)	16 dB	16 dB	16 dB	16 dB	16 dB	16 dB	
GAIN CONTROL RANGE	6	6	6	6	6	6	
SLOPE CONTROL RANGE	6	6	6	6	6	n/a	
OUTPUT LEVELS (dBmV)	46 / 41	46 / 41	44 / 39	44 / 39	44 / 39	48	
DISTORTIONS	CROSS MOD. (-dB)	62	62	64	70	74	79, (63)
	COMP. TR. BT. (-dB)	62	62	62	67	71	n/a
	COMP. 2nd ORD. (-dB)	73	73	73	73	74	72, (70) ⁽²⁾
NOISE FIGURE (dB)	7	7	8	8	8	8, (6)	
CURRENT DC (Amps)	.44	.44	.44	.66	1.10	.22, (.13)	
POWER (Watts) ⁽¹⁾	20	44	20	27	44	8, (5)	

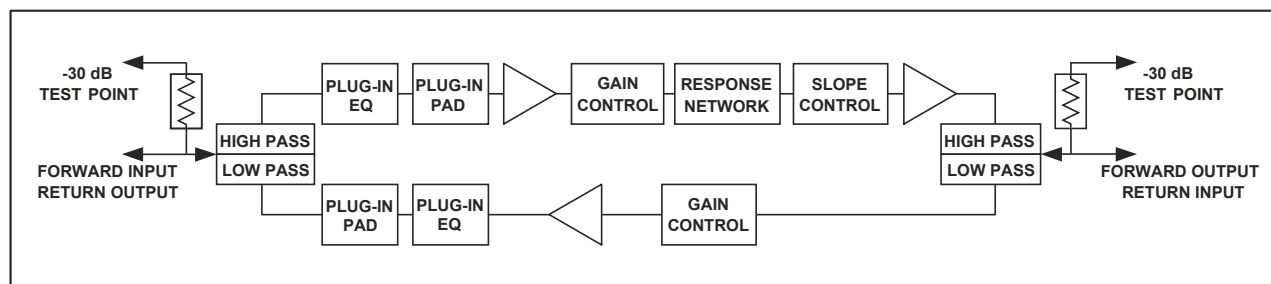
NOTES:
 (1) Power dissipation measured at 110-volt input to UL approved power transformer. DC amperes is load on internal voltage regulator.
 (2) QDAXRA-23 specification is for discrete second order beats - not composite second order.

QDAX 450 & 550 Distribution Amplifier:

Ordering Information

Example Part Number: QDAX550 - 32 P 2W	
	1 2 3 4
1: Frequency: 450 = 450 MHz 550 = 550 MHz	
2: Gain (See Specifications Table)	
3: Output Technology: (dash[-] = Push-Pull P = Power-Doubled Q = Quadra-Power)	
4: Amplifier Configuration: 2W = 2-Way ⁽¹⁾ Blank = 1-Way	
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
QEE 450-dB	Forward EQ Values of 6, 12, 18 or 24 dB
QEE 550-dB	Forward EQ Values of 6, 12, 18 or 24 dB
QEE 40-dB	Reverse EQ Value in MHz and dB Ratings
SXP-**	Plug-in Attenuator Pads, ** = 0-20 dB in 1 dB steps
SXP Pads 	
#951	120 Volts to 26 Volts, 60 Hz AC Power Transformer, 50 VA Rating (included with QDAX)
#951 Transformer 	
Shipping Weight	7.5 lbs (3.40 kg)
Dimensions	9.125"H x 7.0"W x 3.562"D (23.18H x 17.78W x 9.05D cm)
NOTE: (1) All 2-way amplifiers with a forward gain of 35 dB or more require the use of QDAXRA-16 return amplifiers only.	

Functional Schematic



Specifications subject to change without notice.

ISO
9001
REGISTERED