



QDAX 750 & 860 Distribution Amplifier:

Features:

- ▶ 750-860 MHz, 1-way or 2-way models available
- ▶ Push-pull, power-doubled, & quadra-power technology
- ▶ Power-doubled versions provide 2.5 dBmV additional output level over conventional push-pull types while quadra-powered models provide an additional 4.5 dBmV
- ▶ Plug-in hybrids & accessories
- ▶ Variable pin diode gain & tilt controls
- ▶ Plug-in pads & EQs available at amplifier input to provide more uniform carrier-to-noise performance at all frequencies
- ▶ Includes external Class II UL approved power transformer
- ▶ 5-40 MHz 2-way return path has variable gain control with provision for plug-in pad & EQ
- ▶ Optional return amplifier is activated by inserting a return hybrid IC
- ▶ Quadra-powered amplifiers will require the QDAXRA-23L or QDAXRA-16L low current hybrid for the return amplifier
- ▶ Meets FCC CLI regulations



QDAX 750 & 860 Specifications

SPECIFICATIONS	750 1-WAY			750 2-WAY			860	RETURN AMP	
	Push-Pull	Power-Doubled	Quadra-Power	Push-Pull	Power-Doubled	Quadra-Power	Power-Doubled		
BANDWIDTH (MHz)	54 to 750	54 to 750	54 to 750	54 to 750	54 to 750	54 to 750	54 to 860	5 to 40	
FREQUENCY RESPONSE	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 1.5 dB	
GAINS AVAILABLE (dB)	29, 33, 37	31, 35	28, 32	28, 32, 36 (43)	29, 33, 36	29, 32	29, 33	16, 20, (23)	
CHANNEL LOADING	110	110	110	110	110	110	128	6	
RETURN LOSS (Worst Case)	14 dB	14 dB	14 dB	14 dB	14 dB	14 dB	14 dB	16 dB	
GAIN CONTROL RANGE	5	5	5	5	5	5	5	6	
SLOPE CONTROL RANGE	5	5	3.5	5	5	3.5	5	n/a	
OUTPUT LEVELS (dBmV)	40 / 35	40 / 35	40 / 35	40 / 35	40 / 35	40 / 35	40 / 35	48	
DISTORTIONS	CROSS MOD. (-dB)	67	72	76	66	71	75	72	79, (63)
	COMP. TR. BT. (-dB)	63	68	72	62	67	71	66	n/a
	COMP. 2nd ORD. (-dB)	58	62	65	58	62	65	68	72, (70) ⁽²⁾
NOISE FIGURE (dB)	9	9	9	10	10	10	10	8, (6)	
DC AMPERES @ 24 VDC	.44	.66	1.10	.44 (.56)	.66	1.10	.66	.22, (.13)	
POWER DISSIPATION (Watts) ⁽¹⁾	20	27	44	20 (24)	27	44	27	8, (5)	

NOTES:

(1) Power dissipation measured at 110-volt input to UL approved power transformer. DC amperes is load on internal voltage regulator.

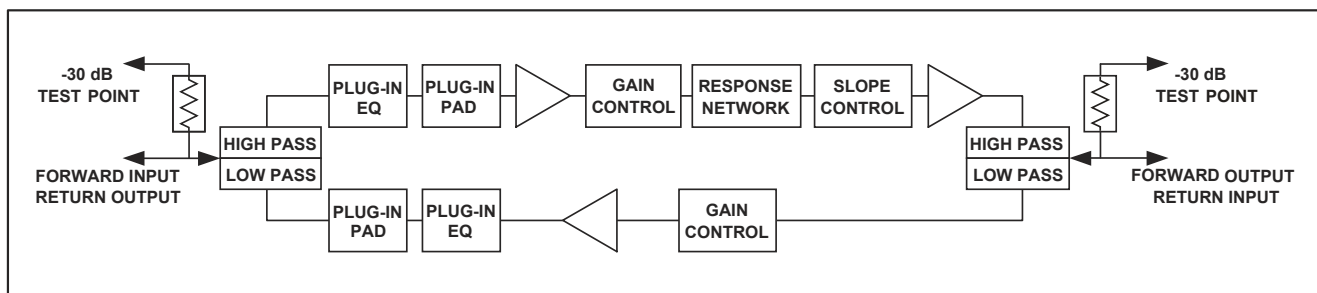
(2) QDAXRA-23 specification is for discrete second order beats - not composite second order.

QDAX 750 & 860 Distribution Amplifier:

Ordering Information

Example Part Number: QDAX750 - 32 P 2W	
$\begin{array}{cccc} 1 & 2 & 3 & 4 \end{array}$	
1: Frequency ⁽¹⁾ : 750 = 750 MHz	
2: Gain (See Specifications Table)	
3: Output Technology: dash[-] = Push-Pull P = Power-Doubled Q = Quadra-Power	
4: Amplifier Configuration: 2W = 2-Way ⁽²⁾ 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
QLX 750-dB	Forward EQ Values from 0-24 dB, 2 dB steps
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)
NOTES:	
(1) Quadra-power output for 860 MHz is available on a special order basis. Call factory for details.	
(2) 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.

