

ELSAT[®] - Ku

SPECIFICATIONS

TRANSMIT CHARACTERISTICS	8W	16W	20W	23W	25W	40W	50W	60W	80W	100W	125W
1 dB COMPRESSION POINT	39dBm	42dBm	43dBm	43.6dBm	44dBm	46dBm	47dBm	49dBm	49.75 dBm	50 dBm	51 dBm
TX GAIN (Fixed)	64 dB	67 dB	68 dB	68.6 dB	69 dB	71 dB	72 dB	74 dB	74.75 dB	75 dB	76 dB
TX LEVEL FLATNES	6 dBp-p max / 500 MHz										
TX INPUT IF FREQUENCY	Ku = 950 to 1,450 MHz										
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)										
TX INPUT IF LEVEL	-25 dBm max										
TX OUTPUT FREQUENCY	Ku =14.0 to 14.50 GHz										
TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 100KHz -100 dBc/Hz max @ 1MHz										
SPURIOUS	-50 dBc max, + - 500 Hz: - 45 dBc										
OPTIONAL REFERENCE											
Requirements	Provided on TXIF line by L-band modem										
FREQUENCY	10 MHz (sine-wave)										
INPUT POWER	-5 to +5 dBm (at input port)										
PHASE NOISE	-125 dBc/Hz max @ 100Hz -135 dBc/Hz max @ 1KHz -140 dBc/Hz max @ 10KHz										
SYSTEM											
ALARM RELAYS	FORM C for Summary Alarm; Isolated										
POWER	100 to 250 VAC; 47 to 63 Hz										
ENVIRONMENTAL											
TEMPERATURE	-40 to +50°C operational -40 to +75°C storage										
ALTITUDE	10,000 ft (3,048 meters) max										
RAIN	20 inches per hour										
WIND	150 miles per hour										
VIBRATION	1.0 g random operational, 2.5 g random survival										
SHOCK	10 g operational, 40 g survival										
POWER & DIMENSIONS											
TYPICAL POWER CONSUMPTION	160VA	272VA	294VA	298VA	302VA	767VA	804VA	853VA	1429VA	1600VA	1644VA
PRIME POWER RECOMMENDATION	400VA	690VA	700VA	710VA	720VA	1690VA	1768VA	1876VA	3144VA	3520VA	3617VA
WEIGHT	28 lbs. (13 kg)	37 lbs. (17kg)	40 lbs. (18kg)	40 lbs. (18kg)	40 lbs. (18kg)	67 lbs. (31 kg)	67 lbs. (31 kg)	67lbs. (31kg)	125lbs. (57kg)	125lbs. (57kg)	125lbs. (57kg)
TRANSCEIVER - 8W	21.6" x 9.0" x 11.6" (549 x 229 x 295 mm)										
SIZE: - 16W, 20W, 23W, 25W	21.6" x 9.0" x 13.0" (549 x 229 x 330 mm)										
- 40W, 50W, 60W	21.6" x 13.0" x 13.6" (549 x 330 x 353 mm)										
- 80W, 100W, 125W	38.0" x 13.0" x 12.5" (965 x 330 x 318 mm)										

all specifications subject to change

4/05

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