

837B-4, 837B-5, 837B-6

UHF Solid State LDMOS Translator

Visual Performance

Power Output (Peak)-3	4, 5 or 6 kW
Output Impedance	50 ohms
Output Connector	3 1/8" EIA
Frequency Range	470 to 860MHz
Frequency Translation Stability	±1 kHz (standard) ±350 Hz (optional)
Regulation of RF Output Power	3 %
Output Variation (over 1 frame)	2 %
Sideband Response (System M/N-others on request)	
-1.25 MHz and below	-20 dB
-0.75 to -0.5 MHz	+0.5 dB, -2 dB
-0.5 to +3.58 MHz	±0.5 dB
+3.58 MHz to +4.18 MHz	+0.5 dB, -1 dB
Freq Response vs. Brightness	±0.5 dB
Differential Gain	5 %
Incidental Phase Modulation	±3°
Linearity (Low Frequency)	5 %
Differential Phase	±3°
Signal- to-Noise Ratio	55 dB
2t K-Factor	2 %
Noise Figure	5 dB (max.)
w/input Preamp	3 dB (max.)
Input Dynamic Range	-60 dBm to -15 dBm
w/input Preamp	-75 dBm to -30 dBm
Env. Delay .02 to 4.18 MHz	±40 ns
Harmonics	-60 dB or better
Intermodulation Products	-52 dB or better
Spurious	-60 dB or better
(>3 MHz from channel edge)	

General

Operational Temperature Range	-30°C to +50°C
Altitude*	8500 feet (2600 m) AMSL
Operational Humidity Range	0% to 95% non-condensing
Line Voltage	230V, ±10% 1 phase to 3 phase, 50/60 Hz
Power Factor	0.95

Aural Performance

Power Output (Average)	400, 500 or 600W
Distortion	0.5%
FM Noise	-60 dB
AM Noise	-50 dB
Aural to Visual Separation	4.5 MHz, ±100 Hz

Transmitter	Dimensions (W x D x H)	Weight	PowerConsumption
837B-4	80" x 66" x 34"	1350 lbs	13,700 W (50% APL)
837B-5	80" x 66" x 34"	1500 lbs	13,700 W (50% APL)
837B-6	80" x 66" x 34"	1650 lbs	20,200 W (50% APL)



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