

# Dual-Band Amplifiers

*A range of models each containing two separate amplifiers in one enclosure with a common power supply, internal coaxial relay band switching and single input and output connectors.*

## Features

- *Broad bandwidth*
- *Linear operation*
- *Low compression at rated power*
- *VSWR protection*
- *CE certified*
- *Rack mountable*
- *GPIB & RS232 option*
- *Blanking*
- *Remote capability*
- *RF gain control*
- *Automatic leveling (ALC)*
- *Safety interlock input*
- *Optional rear panel connectors*
- *RF power meter*
- *Rugged RF power MOSFET design*

## Benefits

- *Wide instantaneous bandwidth for sweep applications, pulse and CW operation*
- *Delivers rated power with low distortion*
- *Low RF leakage reduces possible interference with equipment in close proximity*
- *RF power sensors prevent overdrive and protect amplifier, and load, in high VSWR conditions*
- *Single power supply for both bands*
- *Conducted and radiated EMC immunity test capability with one amplifier*
- *Fully featured remote capability allows control and monitoring of all front panel functions*

# MODELS 727LC, 737LC, 747LC, 757LCB

10, 25, 50 and 100 Watt Dual-Band RF Power Amplifiers  
10 KHz to 1000 MHz

Each model contains two separate amplifiers in one enclosure with a common power supply, internal coaxial relay band switching and single input and output connectors.



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- GPIB & RS232 option
- Blanking
- Remote capability
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MODEL	727LC	737LC	747LC	757LCB
Power Output	10 Watts	25 Watts	50 Watts	100 Watts
Frequency Range, Band 1	0.01-200 MHz	0.01-200 MHz	0.01-200 MHz	0.01-230 MHz
Band 2	200-1000 MHz	200-1000 MHz	200-1000 MHz	80-1000 MHz
Power Gain	40 dB	45 dB	47 dB	50 dB
Gain Flatness	±2.0 dB (unleveled) ±0.6 dB (leveled)	±2.0 dB (unleveled) ±0.5 dB (leveled)	±2.5 dB (unleveled) ±0.5 dB (leveled)	±2.5 dB (unleveled) ±0.7 dB (leveled)
Gain Control	15 dB (minimum)	15 dB (minimum)	15 dB (minimum)	15 dB (minimum)
ALC	Yes	Yes	Yes	Yes
Class of Operation	'A' Linear	'A' Linear	'A' Linear	'A' Linear
Input/Output Impedance	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input for Full Output	1 mW	1 mW	1 mW	1 mW
Spurious (maximum)	-70 dBc	-70 dBc	-70 dBc	-65 dBc
Harmonics (worst case)	-22, -18 dBc (2nd, 3rd)	-20 dBc	-18 dBc	-22, -15 dBc (2nd, 3rd)
Protection	Temp, VSWR	Temp, VSWR	Temp, VSWR	Temp, VSWR
Operating Temperature	-10 to 40° C			
Connectors	N Female	N Female	N Female	N Female
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Panel Meter	10 Watts	25 Watts	50 Watts	100 Watts
Indicators	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low
Primary Power Requirements	115-230 VAC, 50/60 Hz			
Physical Dimensions H x W x D	7 x 19 x 18 in	7 x 19 x 18 in	7 x 19 x 21 in	8¾ x 19 x 22¾ in
Weight	36 lb, 16.4 kg	311 lb, 14.1 kg	49 lb, 22.3 kg	70 lb, 31.8 kg