

Combination Amplifiers

A range of models each containing two separate amplifiers at different power levels in one enclosure, with 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*
- *GPB & 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*

MODEL 737FC, 827FC, 837FC

25 Watt to 1000 Watt Broadband RF Power Amplifiers



Each model contains two separate amplifiers at different power levels in one enclosure. Internal coaxial relay band switching and single input and output connectors.

Features

- Broad bandwidth
- Linear operation
- Low compression at rated power
- VSWR protection
- Rack mountable
- GPIB & RS232 option
- Blanking
- Remote capability
- RF gain control
- Automatic leveling (ALC)
- Safety interlock input
- RF power meter

System 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
- Fully featured remote capability allows control and monitoring of *all* front panel functions

MODEL	737FC		827FC		837FC	
	Band 1	Band 2	Band 1	Band 2	Band 1	Band 2
Power Output	100 Watts	25 Watts	500 Watts	100 Watts	1000 Watts	100 Watts
Frequency Range	20-200 MHz	200-1000 MHz	0.01-220 MHz	200-1000 MHz	0.01-220 MHz	200-1000 MHz
Power Gain	50 dB	44 dB	57 dB	50 dB	60 dB	50 dB
Gain Flatness (unleveled)	±2.0 dB	±2.0 dB	±2.0 dB	±2.5 dB	±2.0 dB	±2.5 dB
(leveled)	±0.5 dB	±0.5 dB	±1.5 dB	±0.5 dB	±1.5 dB	±0.5 dB
Gain Control	15 dB	15 dB	20 dB	20 dB	20 dB	20 dB
ALC	Yes	Yes	Yes	Yes	Yes	Yes
Class of Operation	'A' Linear	'A' Linear	'A' Linear	'A' Linear	'A' Linear	'A' Linear
Input/Output Imped.	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input for Full Output	1-3 mW	1-3 mW	1 mW	1-2 mW	1 mW	1-2 mW
Spurious (maximum)	-70 dBc	-70 dBc	-70 dBc	-70 dBc	-70 dBc	-70 dBc
Harmonics (worst case)	-20, -10 dBc (2nd, 3rd)	-20, -10 dBc (2nd, 3rd)	-15 dBc	-16 dBc	-15 dBc	-16 dBc
Protection	Temp, VSWR	Temp, VSWR	Temp, Overload	Temp, VSWR	Temp, Overload	Temp, VSWR
Operating Temp.	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C
Cooling	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air
Panel Meter	100 Watts	100 Watts	Voltage & Current: Bias Voltage, Screen Voltage, Plate Voltage, 1st Grid Current, Screen Grid Current, Plate Current	Fwd: 100 W/ 500 W Refl: % limit	Voltage & Current: Bias Voltage, Screen Voltage, Plate Voltage, 1st Grid Current, Screen Grid Current, Plate Current	Fwd: 100 W/ 1000 W Refl: % limit
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	HV, PA Overload, No Air Standby, Filaments	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low	HV, PA Overload, No Air Standby, Filaments	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active, RF Band Hi & Low
Primary Power	115-230 VAC,	115-230 VAC, Physical Dimensions	208,220, 240 VAC 3-Phase	208,220, 240 VAC 3-Phase	208,220, 240 VAC 3-Phase,	208,220, 240 VAC 3-Phase,
H x W x D	7 x 19 x 17 1/2 in		61 x 22 x 26 in		61 x 27 x 26 in	
Weight	31 lb, 14.1 kg		500 lb, 227 kg		650 lb, 295 kg	