Kalmus: A Tradition of Rugged and Reliable High Performance RF Amplifiers

7000 Series

A range of highly linear amplifiers with excellent 1dB compression performance and low harmonics - ideal for radiated RF immunity and similar test applications.

Features

- *Broad bandwidth*
- *Linear operation*
- *Low compression at rated power*
- *VSWR protection*
- *CE approved*
- *No band switching*
- *Rack mountable*
- *Optional bench-top case*
- *GPIB & RS232 control option*
- *Blanking*
- *Remote control*
- *RF gain control*
- *Automatic leveling (ALC)*
- *Safety interlock input*
- *Optional rear connectors*
- *Rugged RF power MOSFET design*

Benefits

- *Wide instantaneous bandwidth for sweep, pulse and CW applications*
- *Delivers rated power with low distortion*
- *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*

MODELS 7025LC, 7050LC, 7075LC, 7100LC

25 Watt to 100 Watt Broadband RF Power Amplifiers

A range of highly linear amplifiers with excellent 1dB compression performance and low harmonics - ideal for radiated RF immunity and similar test applications.

MODEL	7025LC	7050LC	7075LC	7100LC
Rated Power	25 Watts	50 Watts	75 Watts	100 Watts
Linear Power @ 1 dB or less compression	25 Watts	50 Watts	75 Watts	100 Watts typical
Frequency Range	20-1000 MHz	20-1000 MHz	80-1000 MHz	80-1000 MHz
Gain (typical)	44 dB	47 dB	50 dB	50 dB
Gain Flatness	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)
Gain Control (minimum)	20 dB	20 dB	20 dB	15 dB
ALC	Yes	Yes	Yes	Yes
Class of Operation	'A' Linear	'A' Linear	'A' Linear	'A' Linear
Input Impedance	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input for Full Output	0 dBm nominal	0 dBm nominal	0 dBm nominal	0 dBm nominal
Spurious (maximum)	-66 dBc	-66 dBc	-66 dBc	-66 dBc
Harmonics (maximum)	-20 dBc	-20 dBc	-26 dBc	-16 dBc
Protection	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive
Operating Temperature	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C
Connectors (input/output)	N Female	N Female	N Female	N Female
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Panel Meter	Fwd and Refl Power	Fwd and Refl Power	Fwd and Refl Power	Fwd and Refl Power
Indicators	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active
Physical Dimensions H x W x D	7 x 19 x 21 in	7 x 19 x 21 in	7 x 19 x 21 in	7 x 19 x 21 in
Weight	50 lb, 22.7 kg	50 lb, 22.7 kg	50 lb, 22.7 kg	50 lb, 22.7 kg
Primary Power Requirements	95–255 VAC, 1ø, 200 VA	95–255 VAC, 1ø, 405 VA	95–255 VAC, 1ø, 810 VA	95–255 VAC, 1ø, 960 VA

MODELS 7200LC, 7250LC, 7500LC, 7000LC

200 Watt to 0000 Watt Broadband RF Power Amplifiers

Features

- Broad bandwidth
- Linear operation
- Low compression at rated power
- VSWR protection
- CE approved
- No band switching
- Rack mountable
- Optional bench-top case
- GPIB & RS232 control option
- Blanking
- Remote control
- RF gain control
- Automatic leveling (ALC)
- Safety interlock input
- Optional rear connectors
- Rugged RF power MOSFET designSystem Benefits

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	7200LC	7250LC	7500LC	7000LC
Rated Power	200 Watts	250 Watts	500 Watts	1000 Watts
Linear Power @ 1 dB or less compression	200 Watts	250 Watts	500 Watts	1000 Watts typical
Frequency Range	80-1000 MHz	80-1000 MHz	80-1000 MHz	80-1000 MHz
Gain (typical)	53 dB	53 dB	57 dB	60 dB
Gain Flatness	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)	± 3.0 dB (unleveled) ± 1.0 dB (leveled)
Gain Control (minimum)	20 dB	20 dB	20dB	15 dB
ALC	Yes	Yes	Yes	Yes
Class of Operation	'A' Linear	'A' Linear	'A' Linear	'A' Linear
Input Impedance	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input for Full Output	0 dBm nominal	0 dBm nominal	0 dBm nominal	0 dBm nominal
Spurious (maximum)	-66 dBc	-66 dBc	-66 dBc	-66 dBc
Harmonics (maximum)	-26 dBc	-26 dBc	-26 dBc	-23 dBc
Protection	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive	Overtemperature, VSWR, Overdrive
Operating Temperature	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C
Connectors (input/output)	N Female	N Female	N Female	N Female
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Panel Meter	Fwd and Refl Power	Fwd and Refl Power	Fwd and Refl Power	Fwd and Refl Power
Indicators	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, ALC, VSWR, Temp, Remote Active
Physical Dimensions H x W x D	23 x 22 x 29 in	23 x 22 x 29 in	42 x 22 x 31 in	74 x 22 x 31 in
Weight	190 lb, 86 kg	225 lb, 98 kg	375 lb, 172 kg	341 lb, 341 kg
Primary Power Requirements	187–265 VAC, 1ø, 3 KVA	187–265 VAC, 1ø, 3 KVA	187–265 VAC, 3ø, 6 KVA	87–265 VAC, 3ø, 12 KVA