HD Communications Corp.
Ronkonkoma, NY USA

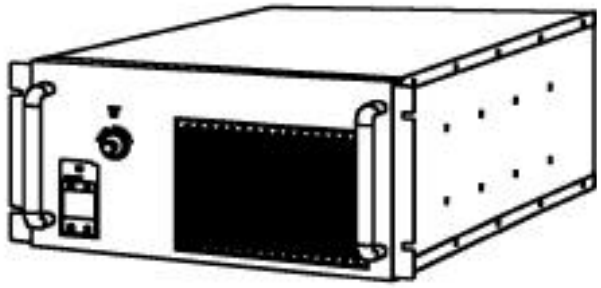
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Solid State Broadband High Power RF Amplifier

HD17935

2000 - 4000 MHz / 100 WATTS

Suitable for S-Band linear applications, the HD17935 is utilizing advanced GaAsFET power devices that provide excellent linearity, high gain, and wide dynamic range. Exceptional performance, long term reliability, and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, built in high quality power supply, EMI/RFI filters, custom-machined housing, and qualified components.



- Solid-state linear design
- Instantaneous ultra broadband
- Small form factor and lightweight
- Standard front panel manual gain adjust
- Suitable for all modulations CW/FM/PM/AM/Pulse/Digital
- 50 Ohm Input/Output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: @ T=25°C, 50Ω system

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	2000		4000	MHz
Output Power CW full range	P_{Sat}	100			Watts
Output Power @ 1dB G.C.P	P_{1dB}	80			Watts
Power Gain @ 1dB G.C.P	G_{1dB}	50			dB
Input Power for nominal Pout	P_{in}		9		dBm
Output Power CW full range	ΔG			±2.0	dB
Input/Output VSWR @ 50 ohm	S11/S22			2:1	
Third Order Intercept Point	IP3		+59		dBm
Noise Figure	NF		7	10	dB
Harmonics @ 1 dB G.C.P	H		-20		dBc
Spurious Signals	Spur		70	60	dBc
Operating Voltage	VAC	100		240	VAC
AC Power Consumption	Pd			800	Watts

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tc	0		+50	°C
Non-operating Temperature	Tstg	-40		+85	°C
Relative humidity w/o condensation	RH	95			%
Altitude	ALT	10,000	30,000		Feet
Shock & Vibration	SH / VI		Airborne		

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	19 x 10.5 x 22	Inch	Max
Weight	100	lb.	Max
RF Connectors Input/Output	Type-N female		
Cooling	Internal forced-air		

PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR @ nominal Pout	Infinite @ any angle & magnitude	Nom
Thermal Overload	85°C shutdown	Max

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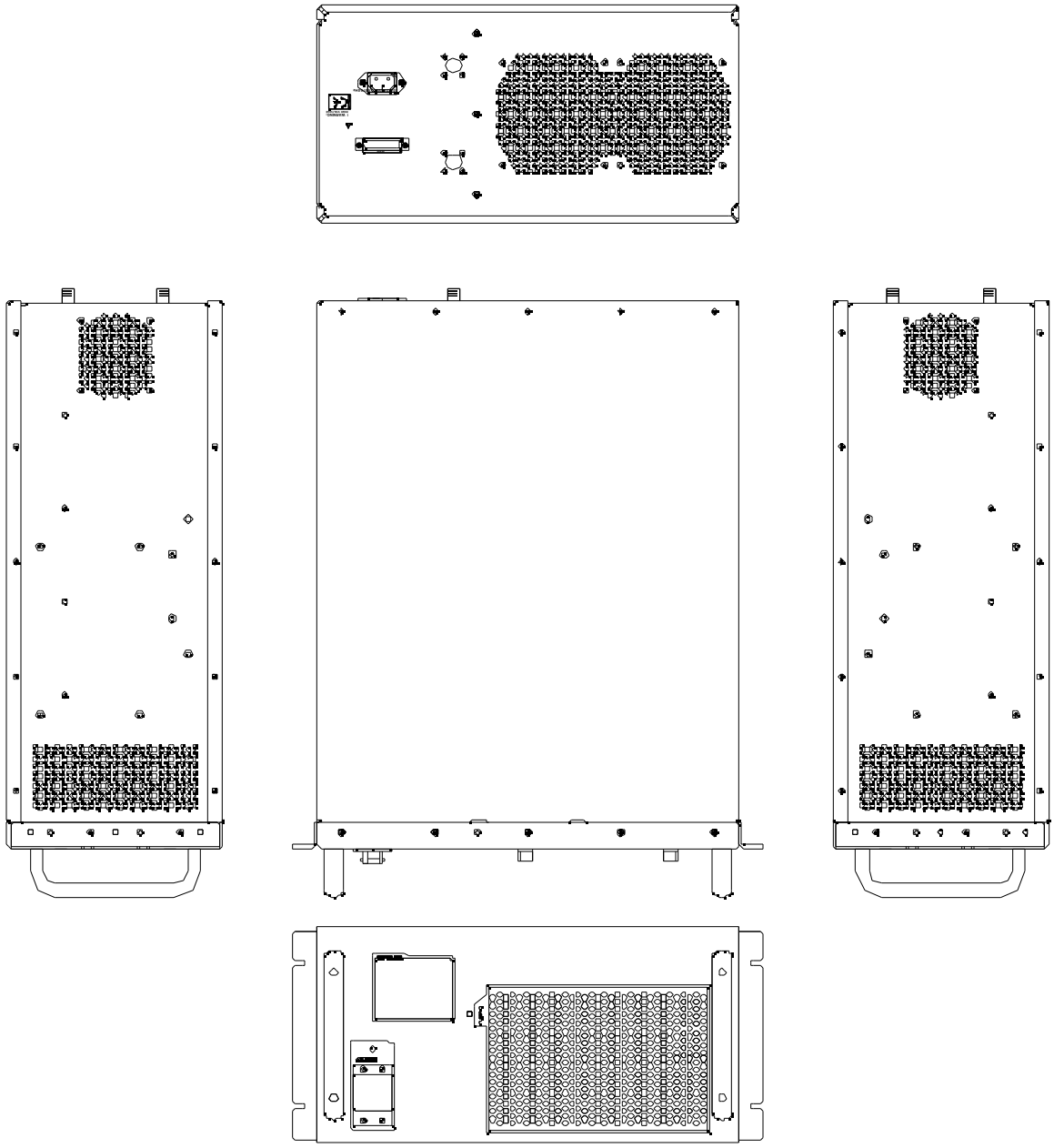
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AVAILABLE OPTIONS

Option	Number	Description	Price
FGA	**061**	Front panel manual gain adjustment 10 turns	Standard
LCD	**062**	Touchscreen Digital Display, including Fwd/Rev Power indication (dB or Watt scale), Gain Adjustment, ALC Fast/Slow, On/Off, Standby mode, Fault indication, Rear panel HPIB IEEE-488.2 or Full Duplex RS232 remote interface	5,000
FCN	**051**	Front Panel Type-N female	N/C
RCN	**052**	Rear Panel Type-N female	N/C

Available Options Packages: 15, 16, 17, 18

OUTLINE DRAWING



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