HD Communications Corp.
Ronkonkoma, NY USA

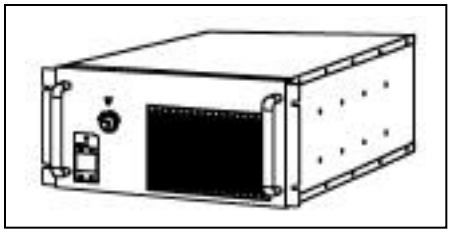
Home of RFAmplifiers.com

Solid State Broadband High Power RF Amplifier

HD14717

20 – 1000 MHz / 120 Watt

The HD14717 is suitable for ultra broadband high power linear applications; this amplifier utilizes push-pull MOSFET power devices that provide high gain, wide dynamic range, low distortions and good linearity. 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, machined housings and all qualified components.



- Solid-state linear design
- Instantaneous ultra broadband
- 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

Characteristics	Rating	Min	Typ	Max	Units
Frequency Response	BW	20		1000	MHz
Power Output CW	P_{sat}	120	150		Watts
Output Power @ 1dB G.C.P	P_{1dB}	80	100		Watts
Power Gain @ 1dB G.C.P	G_{1dB}				
Input Power for Rated Pout	P_{in}		0		dBm
Small Signal Gain Flatness	ΔG			±2.0	dB
Gain Adjustment Range	FGA	25	30		dB
Input/Output VSWR @ 50 ohm	S11/S22		2.0:1		-
Noise Figure	NF			10	dB
Third Order Intercept Point	IP3		+57		dBm
Harmonics @ P1dB G.C.P.	H		-20		dBc
Spurious Signals	Spur			-60	dBc
Supply Voltage (single phase)	VAC	180		260	VAC
Power Consumption	Pd			1800	Watts

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	Tc	0		50	°C
Non-operating Temperature	Tstg	-40		+85	°C
Relative Humidity w/o condensation	RH	95			%
Altitude	Alt	10,000			Feet
Shock and Vibration	SV		Air-Borne		-

MECHANICAL SPECIFICATIONS

Dimensions W x H x D	19 x 8.75 x 22	Inch
Weight	80	lb.
RF Connectors - option FCN or RCN	Type-N female front or rear panel	
Cooling	Built in forced-air system	

PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR programmable response	Infinite @ any angle	Nom
Thermal Overload	85°C shutdown	Max

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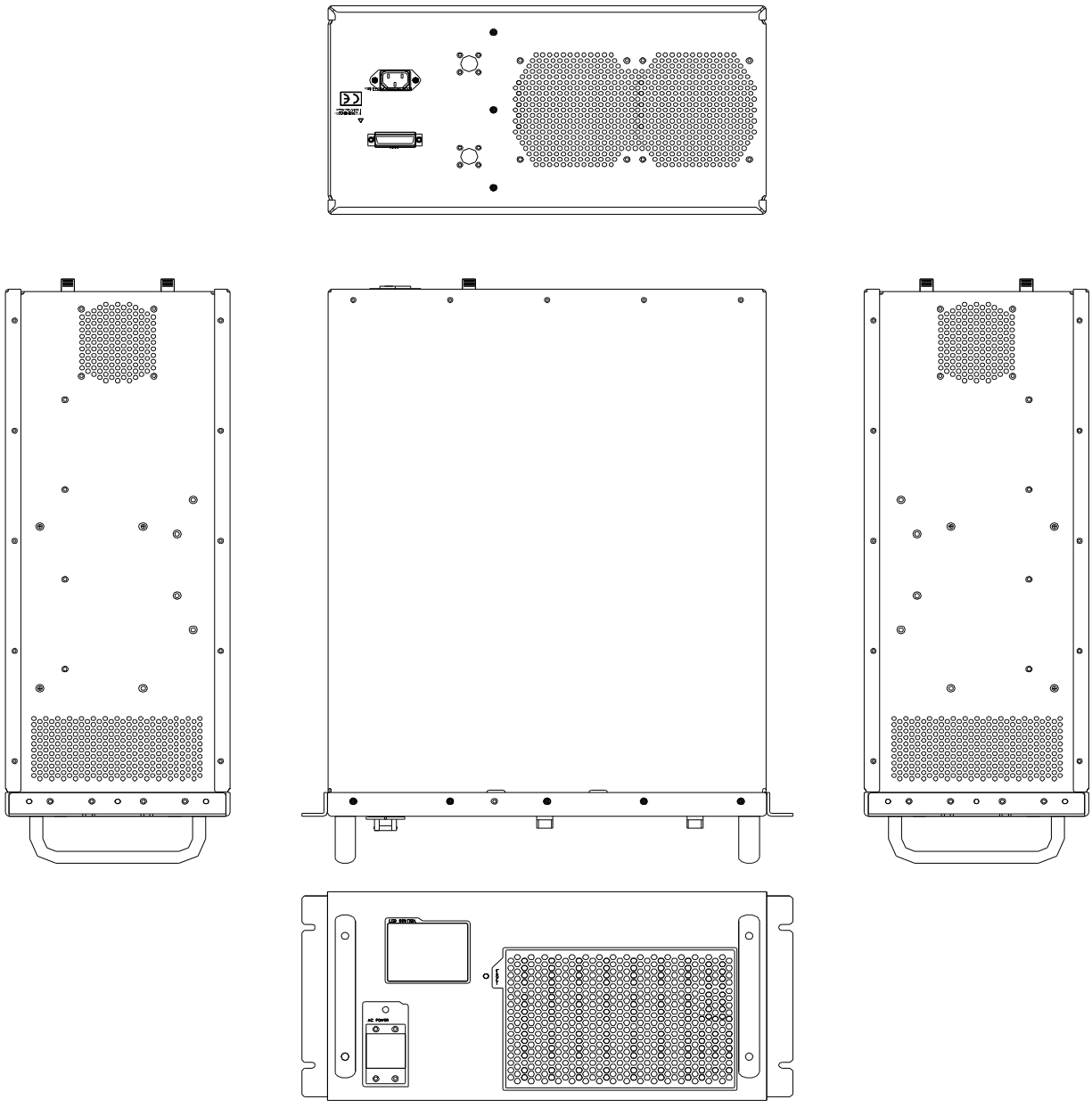
AVAILABLE OPTIONS

Option	Number	Description	Price
FGA	**061**	Front panel manual gain adjustment 10 turns	Standard
LCD	**062**	**Local:** Front panel touch screen LCD controller including Fwd/Rev Power indication (dB or Watt scale), Gain Adjustment, ALC Fast/Slow & On/Off, Standby mode, Fault indication. **Remote:** Rear panel HPIB IEEE-488.2 or full duplex RS232 serial interface.	3,500
FCN	**051**	Front Panel Type-N	N/C
RCN	**052**	Rear Panel Type-N	N/C

Available Option Packages: 15, 16, 17, 18

OUTLINE DRAWING



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