# HD30380
# SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

**FEATURES**

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 5.0 - 20.0 MHz | |
| Power Output | 1000 Watt Min | CW into up to 3:1 load VSWR |
| Input Power | 0 dBm Max | For rated Pout |
| Power Gain | 60 dB Min | |
| Power Gain Flatness | 2.0 dB p-p Max | Constant input power |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| Harmonics 2nd / 3rd | 10 dBc / 25 dBc Typ | At rated output power |
| Noise Figure | 8 dB Max | |
| Phase Noise | TBD | |
| Non Harmonics Spurious | >70dBc | >80dBc goal |
| Operating Voltage | 180 - 240 VAC | Single or 3 phase/50-60Hz |
| Power Consumption | 2500 Watt Typ | At rated Pout |
| Max Input Power | +8 dBm | Without damage |
| Load VSWR | 3 : 1 @ 1000 W, 5:1 @ 500 W | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Ambient Temperature | -20 to +40 °C | |
| Storage Temperature | -30 to +50 °C | |
| Relative Humidity | 0 to 95 % | Non Condensing |

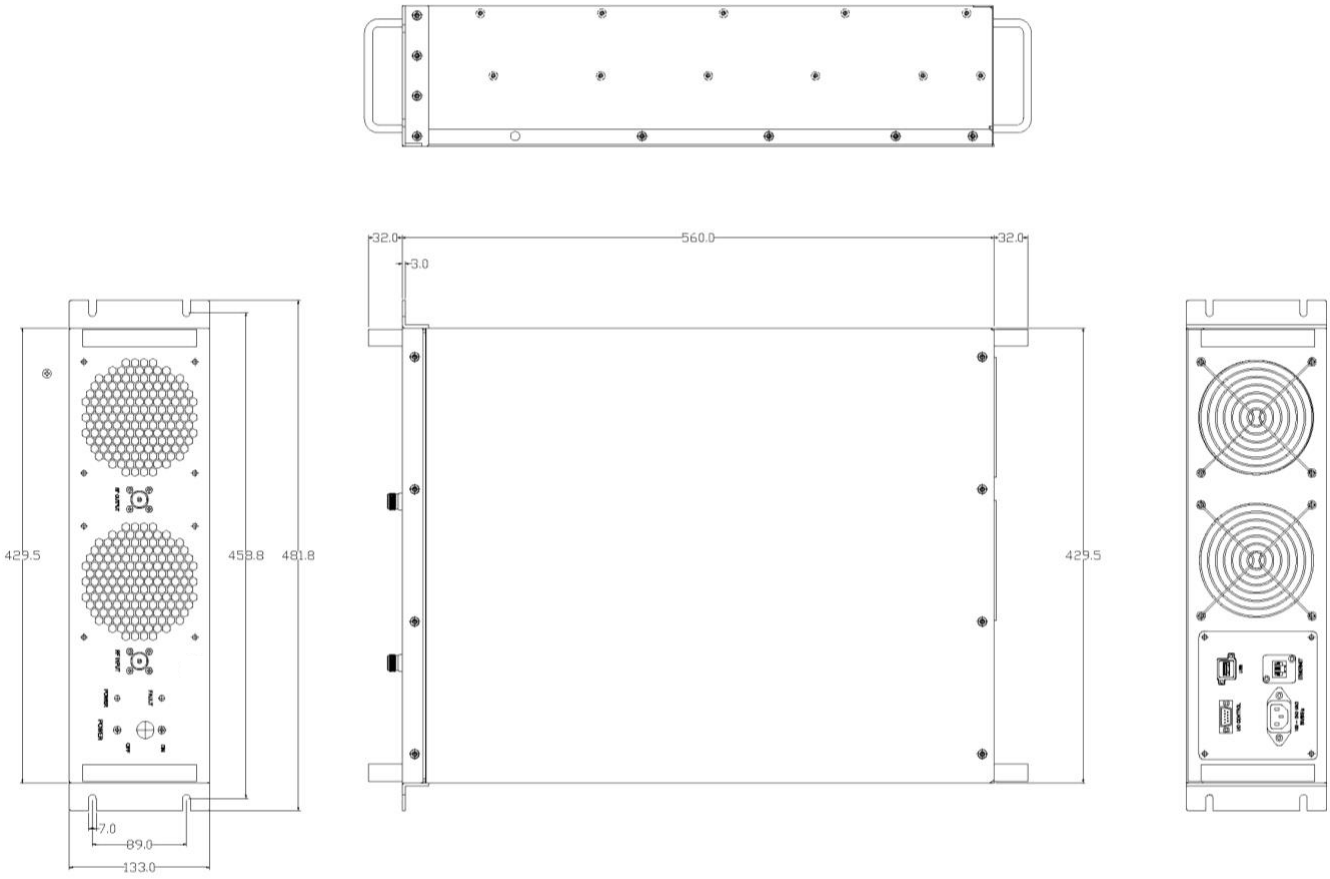
**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 430 x 508 x 133.3 mm | 3U |
| Weight | 20 kg. | |
| RF Connectors In / Out | Sub Miniature Ver. A/Type-N Female | Rear panel |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed |
| Digital uP Controller for Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface | |
| Protection Function | Hi Temp, Over Voltage, Over Current, programmable Load VSWR up to 5:1 | |

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD30380
# SOLID STATE HIGH POWER AMPLIFIER

**OUTLINE DRAWING (Typical)**




332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com