



# R & N MICROWAVE

## SOLID STATE POWER AMPLIFIER 200-400 MHz, 200 Watts

### RN-SSPA200400-200

#### FEATURES:

- Rack mounted system
- Class A/AB linear LDMOS design
- Instantaneous ultra-wide bandwidth
- Designed for broadband EMI/RFI, Lab, Comm. and EW applications
- Suitable for CW, pulse and all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness

#### ELECTRICAL SPECIFICATIONS: 50 , 25°C

- Operating Frequency Range : 200 - 400 MHz (CW)
- Power Output : 200 Watt Min (250W+ Typ)
- Power Output @ P1dB GCP : 200 Watt Min
- Power Gain : 53 dB Min
- Power Gain Flatness : 3.0 dB p-p Max (Constant input power)
- Input Return Loss : -10 dB Max (Relative to 50 Ohm)
- 2-Tone Intermodulation (IMD) : -20 dBc Typ (43dBm/Tone, Δ = 1MHz)
- Harmonics 2nd / 3rd : -30 dBc / -20 dBc Typ (At rated output power)
- Spurious : -60 dBc Max (Non-harmonics)
- Operating Voltage : 100 - 240 VAC Single Phase, Frequency: 47 - 63 Hz
- Power Consumption : 1200 Watt Max (At rated Pout)
- Input Power Protection : + 3 dBm Max (<10 Sec without damage)
- Load VSWR Protection : 5 : 1 Max (<1 minute at rated Pout)
- Input VSWR : 2.5:1
- Gain adjustment range : All units with DMC have the >20dB Gain Adjustment range in the front panel and also via remote

#### ENVIRONMENTAL CHARACTERISTICS :

- Operating Ambient Temperature : 0 to +50 °C
- Storage Temperature : -40 to +85 °C
- Relative Humidity : 5 to 95 % (Non-condensing)

#### MECHANICAL SPECIFICATIONS :

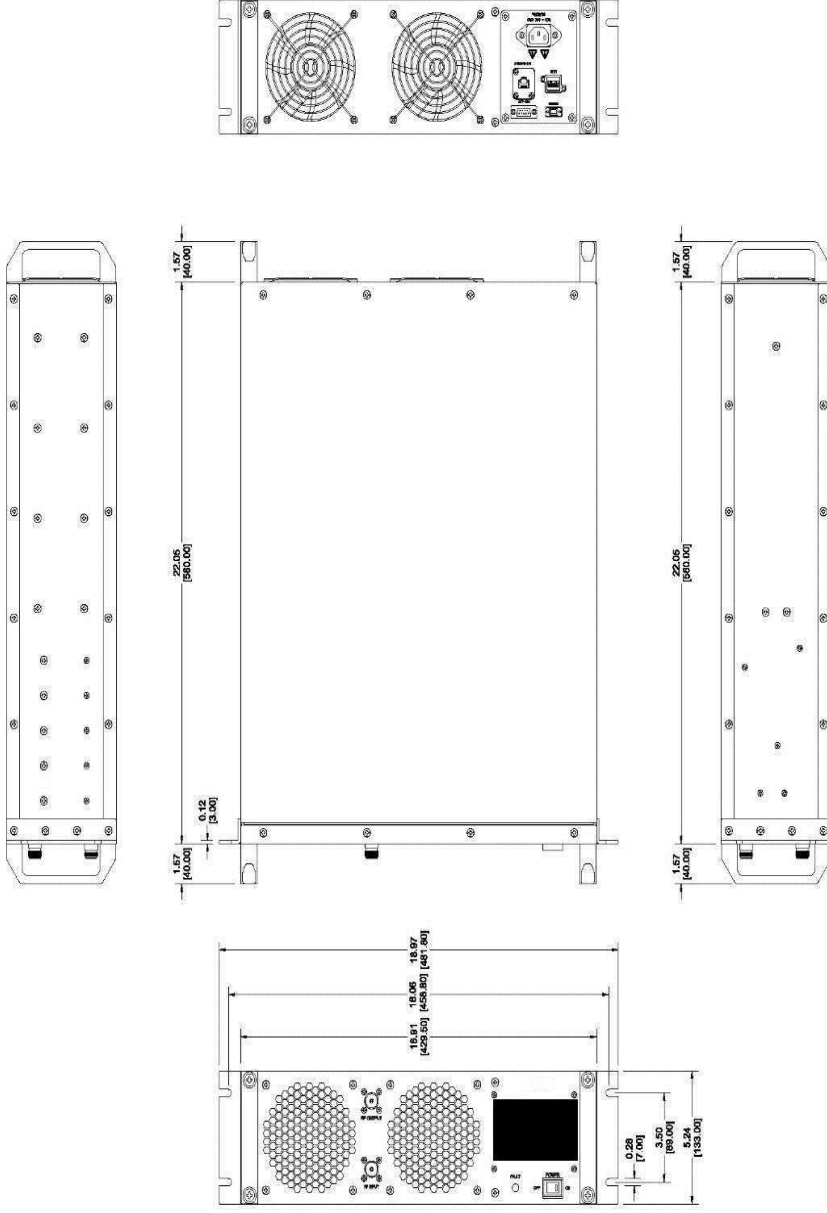
- Dimensions W x H x D : 430 x 133 x 600 mm (3U - excluding handles)
- Weight : 20 kg.
- RF Connectors In / Out : Type-N Female (Front or rear panel)
- AC Power / Interface Connector : IEC 60320-C14 / 9-Pin D-Sub
- Cooling : Built in Fan Cooling (Variable speed)
- OPTIONAL: Digital Monitor & Control : Ethernet RJ 45 TCP/IP, RS 422/485, USB
- FWD, REV, VSWR, GAIN, ALC, V & I, Temp : Optional GPIB interface (Optional Remote Bluetooth application)



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### MECHANICAL OUTLINE



01		OUT LINE DRAWING		DRAWING NO		MATL		SURFACE TREATMENT		QTY		
ITEM		DESIGNATION & FINAL DIMENSIONS										
R&N Microwave		VERIFIED BY PSR	CHECKED BY RJ	DRAWN BY ANIL	NAME --	SIZE A3	SCALE NTS	MODEL NO. POWER AMPLIFIER	PROJECT NSR	DATE 11.04.20	APPROVED REV	REVISION NOTE
ALL DIMENSIONS ARE IN MM PROJECTION GENERAL TOLERANCE WHERE NOT SPECIFIED		MEDIUM IS:2:102		ISSUED ON OD		DWG NO: RN-SSPA200400-200		REV 00		SH 1 OF 1		
				6		5		4		3		
				2		1						