



# AMP2098-ODT SOLID STATE HIGH POWER OUTDOOR AMPLIFIER

## FEATURES

Exodus outdoor ultra-broadband systems were designed for EMI/RFI, Lab, EW and, Communication applications and is Suitable for all single channel modulations standards. These products feature high linear power, good efficiency and long-term reliability in a light weight and small form factor. Built in features include remote web-based user interface for control, monitoring and redundancy if required. The products are Best-in-Class for High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°

Parameter	Specification	Notes
Operating Frequency Range	0.7 - 6.0 GHz	
Power Output @ Psat	20 Watt Min	CW
Power Output @ P1dB GCP	15 Watt Min	CW
Power Gain	43 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	33dBm/Tone, Δ = 1MHz
Harmonics	2 <sup>nd</sup> -15 dBc Typ <3 GHz / -20 dBc Typ	At rated Pout
	3 <sup>rd</sup> -30 dBc Typ	
Spurious	-60 dBc Max	Non Harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	250 Watt Max / 200 Watt Typ	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	Sunshade recommended for high temperature Antenna & Roof mount applications
Storage Temperature	-40 to +85 °C	
Relative Humidity	0 to 100 %	Condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	214 x 145 x 334 mm	Outdoor Antenna/Roof Mount
Weight	10 kg.	
RF Connectors In/Out	Type-N female	
Interface Connector	9 Pin D-Sub	See table pin assignment
AC Power Connector	MS Connector	
Cooling	Built in Hybrid Fan/Convection Cooling	
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Remote Bluetooth application

### D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	Reserved	N/C
2	Reserved	N/C
3	CURRENT SENSOR	$I_D @ 20mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	SHUTDOWN	TTL - Standby Mode
6	Reserved	N/C
7	Reserved	N/C
8, 9	GND	Ground

### OUTLINE DRAWING

