SBP-7138632725-1212-H1-HR

71 to 86 GHz, Power Amplifier, 26.5 dB Gain, +26.5 dBm P_{sat}

SBP-7138632725-1212-H1-HR is a power amplifier with a typical small signal gain of 26.5 dB and a nominal P_{sat} of +26.5 dBm across the frequency range of 71 to 86 GHz. The DC power requirement for the amplifier is +8 V_{DC}/ 5.0 A. The mechanical configuration offers an in-line structure with WR-12 Uniguide. Other port configurations, such as 1 mm connector for either the input or output port, are also available under different model numbers. A heat sink is included for cooling.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	71 GHz		86 GHz
Small Signal Gain		26.5 dB	
P_{1dB}		+24.5 dBm	
P_{Sat}		+26.5 dBm	
P_{In} (Damage)			+15 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage		+8 V_{DC}	+12 V_{DC}
DC Supply Current (Saturated)		5.0 A	
Fan DC Voltage		+12 V_{DC}	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input/Output Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated, Black Anodize
Fan Connector	2 wire leads
Degree of Protection	IP40
Outline	BP-SE-2-SR-H95

ECCN

3A001.b.4

FEATURES

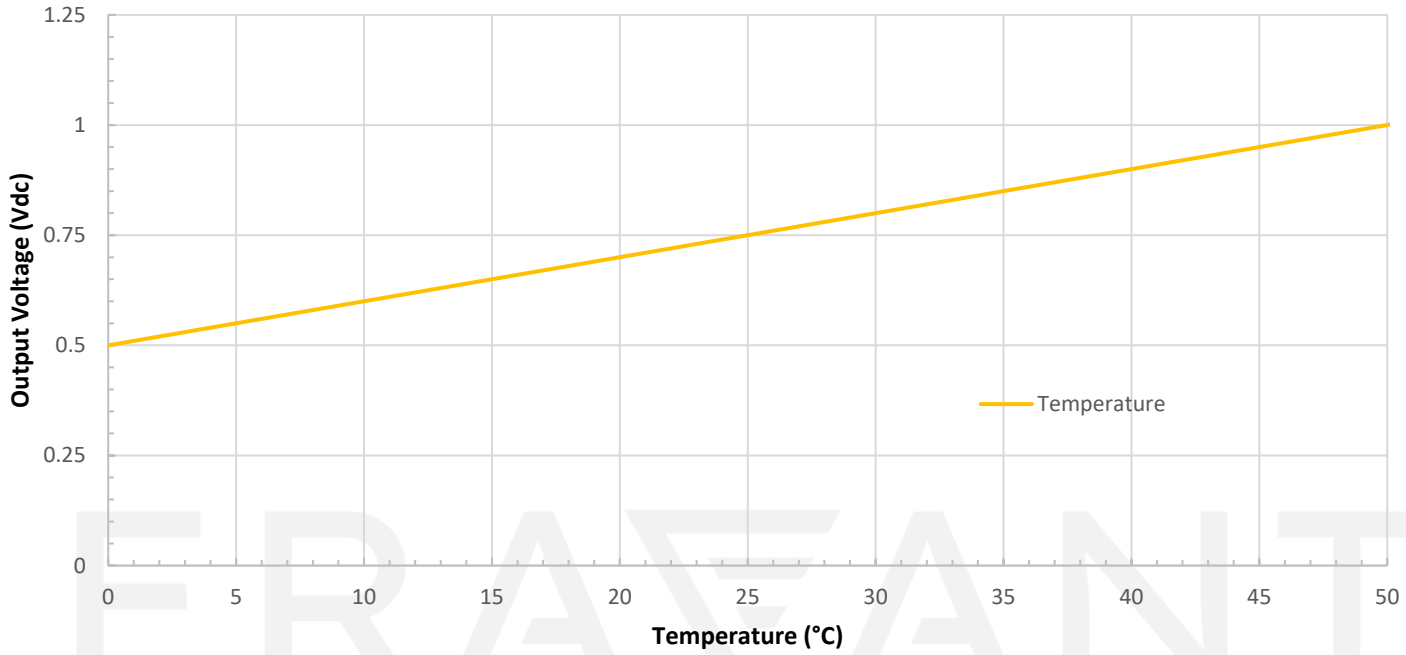
- Forced Air Cooling
- In-line Port Configuration
- High Output Power

APPLICATIONS

- Communications Systems
- Test Equipment
- Radar Systems
- SATCOM

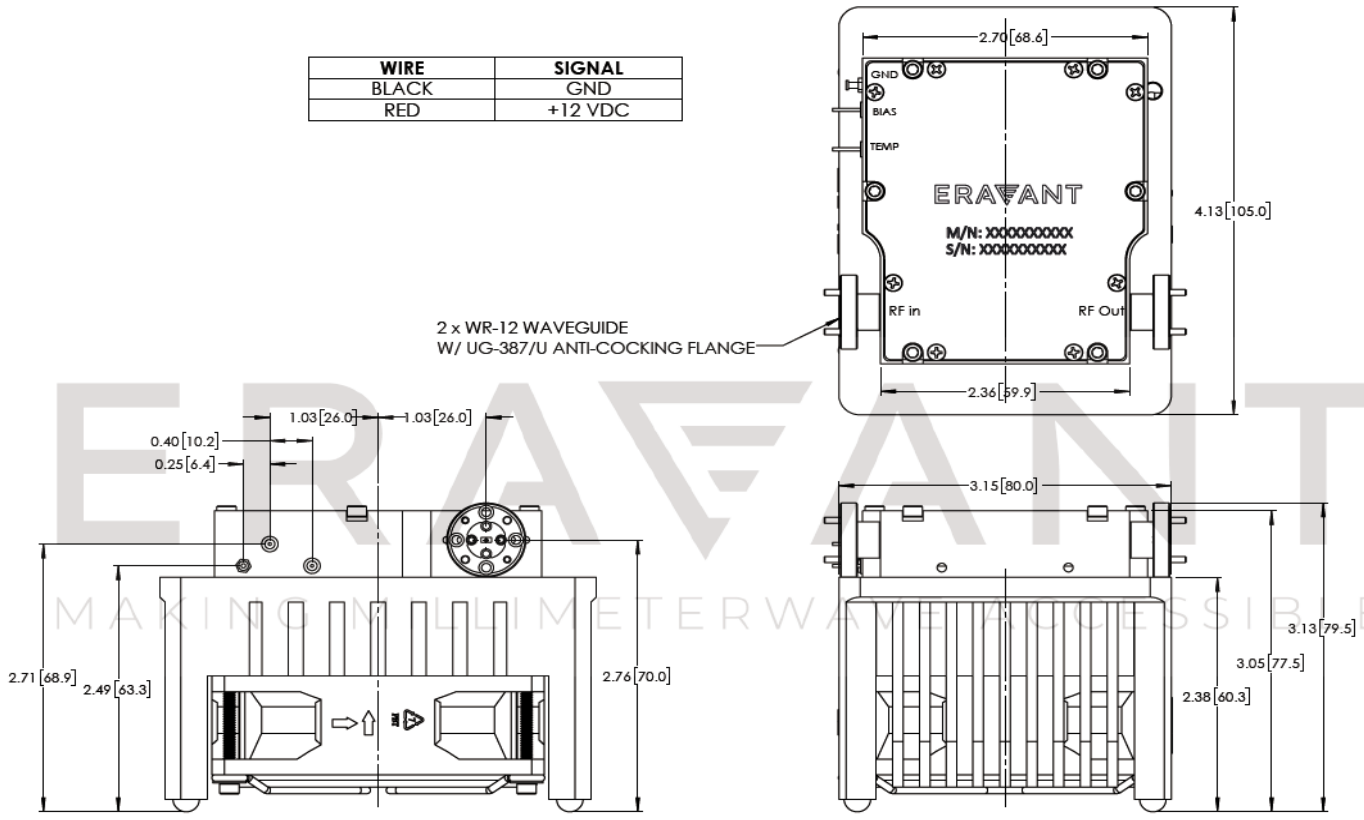
SUPPLEMENTAL DETAILS

Temperature vs Temp Sensor Output Voltage



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])

WIRE	SIGNAL
BLACK	GND
RED	+12 VDC



NOTE:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- Other mechanical configurations with other frequency bands are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- The case temperature of the device shall never exceed +50°C.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

MAKING MILLIMETERWAVE ACCESSIBLE