

NEW PRODUCT RELEASE

Solid State Power Amplifier Module

20 to 1000MHz, 125 Watts

MODEL BME2719-125

Features:

- Highest Power Density to Footprint Ratio
- Ultra Wideband Operation
- Highest Efficiency Over the Entire Bandwidth
- Rugged and Reliable
- Extreme Temperature Range Usage
- RF Input/Output Sample Ports
- Internal DC to DC Converters
- Optional T/R Pin Switch Available
- Suitable Building Block for Rack Mounted Systems



Performance Specifications

• Frequency Range:	20 to 1000 MHz
• RF Power Output (P3dB):	125 Watts Typical
• Saturated Power Output (P _{sat}):	150 Watts
• RF Input Range:	-9 to +1 dBm Typical
• RF input Overdrive:	20 dBm Max.
• DC Bias:	AB Linear
• Modulation Format:	Multi-tone, CW, AM, FM, Pulse
• Input VSWR:	1.5:1 Typical
• Output Load VSWR:	2.0:1 Typical
• Harmonic (In Band 2 nd /3 rd):	<-11 dBc Typical
• IM Products (4 Tones):	<-11 dBc Typical
• Spurious:	<-60 dBc
• Stability:	Open/Short Tested
• Built in Test:	Composite Fault Indication (Over Temperature, Over Voltage, Over Current)

• RF Out Sample Port:	Yes
• Control Interface:	RS-422 SPI
• PA Enable/Disable:	RS-422
• DC Input:	18-36VDC
• DC Power @ 24V:	575W Typical
• Efficiency (DC to RF):	25% Typical
• Noise Power Output:	-86dBm/Hz typical
• Interface Connector:	
RF Input, DC Input and Sample Ports:	D-Sub 36W4
RF Output and Sample Port:	SMA (2X)
• Operating Temperature:	-40 to 85°C Baseplate (external heatsink required)
• Environmental:	Shock/Vibration MIL-STD-810F
• Size:	11" x 6.9" x 1.25"
• Weight:	5.5 lbs.

COMTECH PST proudly introduces the highest power solid state RF modules available in the marketplace today. Comtech's latest development expands on its proven innovative integrated RF GaN Power Amplifier designs by further increasing the RF power density, while improving overall operating efficiency. Consistent with its planned technology development roadmap, Comtech is leading the field with the latest in GaN-based RF device performance and advanced amplifier development. These highly integrated designs are ideal for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited. Applications include ground (dismounted, mobile or fixed), surface, and airborne platforms.