105 Baylis Road · Melville, NY USA 11747
Tel: +1 (631) 777-8900 • Fax: +1 (631) 777-8877
www.comtechpst.com

Solid State Power Amplifier Module
6 to 18GHz, 20 Watts
MODEL BME69189-20

Features:

- Ultra Wideband Operation
- High Efficiency
- Full Power across the Entire Bandwidth
- Rugged and Reliable
- Low Harmonic Distortion
- Compact and Lightweight
- GaN Technology

Performance Specifications

Frequency Range:	6-18 GHz
RF Power Output (P3dB):	≥20 Watts Min (25 Watts typical)
Gain @ 20 watts:	>41 dB (45 dB typical)
RF input Overdrive:	+10 dBm Max.
Gain Flatness @ 20W (50Ω)	±4dB
Class of Operation:	AB Linear
Input VSWR:	2.0:1 Maximum
Output Load VSWR:	2.0:1 Full Power
Harmonics:	
2fo:	<-15dBc
3fo:	<-25dBc
Spurious:	<-60 dBc
Stability:	Open/Short Tested
Built in Test:	Composite Fault Indication Over Current Fault Over Temperature Fault

DC/Control Interface:	7-pin Combo D
PA Enable/Disable:	5.0V TTL (<2µS) ON (<1us) OFF
DC Input:	+28Vdc
DC Power @ Standby:	<15W
Efficiency (DC to RF):	>12% (14% Typical)
RF Connectors:	
RF Input:	SMA Female field replaceable
RF Output:	SMA Female field replaceable
Operating Temperature:	-40 to +55°C Baseplate (external heatsink required)
Environmental:	Shock/Vibration MIL-STD-810F
Size:	6.56" x 3.50" x 0.84"
Weight:	1.4 lbs. max.
Noise Power Output:	-105dBm/Hz

COMTECH PST proudly introduces a new high power density solid state RF module quickly becoming available in today's marketplace. Comtech's latest development continues to expand on its proven innovative integrated RF GaN Power Amplifier designs by further increasing the RF power density. Consistent with its planned technology development roadmap, Comtech proudly introduces the latest in GaN-based 6-18GHz RF amplifier. This highly integrated design is ideal for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited.