

Сомтесн

105 Baylis Road ♦ Melville, New York 11747 Telephone (631) 777-8900 ♦ Fax (631) 777-8877

Solid State Power Amplifier Module 2-6GHz 100 Watts MODEL BME2969-100

Features/Benefits:

- High Power Density in Small Compact Package
- Ideally suited for Airborne/Surface/Mobile applications
- Wideband Operation Multi-Complex Waveforms
- Built In Forward and Reverse Coupler
- Open/Short & High VSWR Load Monitoring/Protection
- Temperature and Current Monitoring/Protection
- Low Voltage Input Power 28V DC
- Ideal for TWT Replacement



 Frequency Range: 	2-6 GHz	DC Input:	+28.5 ±0.1VDC
RF Power Output:	100 Watts Saturated Typical	DC Power @ 28V:	600W Max
RF Input:	-13 to 0 dBm Typical	 Efficiency (DC to RF): 	20% Typical
Gain	59 dB ± 3dB Typical	DC Bias:	AB Linear
RF input Overdrive:	10 dBm Max.	Noise Figure:	<18 dB
 Modulation Format: 	AM/FM/CW/Digital/Pulse	Noise Output Power	-95 dBm/Hz max (No RF)
Input VSWR:	2.0:1 Max.	RF Input/Output Connectors:	SMA/TNC
Output into 2:1 VSWR:	85W Typical	Control/DC Connector:	D-Subminiature
• Harmonic (2 nd /3 rd):	<-15/20 dBc (2Fo & 3Fo) Typical	Operating Temperature:	-40 to 65°C Baseplate
Spurious:	<-60 dBc		(external heatsink required)
Open/Short:	Fully Protected (turn down)	Environmental:	Surface/Airborne
Control Interface:			95% Non-Condensing
PA Enable (Blanking):	RS-422 Diff or TTL Logic (3.3V)		40,000 FT
Summary Fault Output:	TTL Logic (Temp, Current)	Size:	7.75″ x 3.5″ x 1.75″
Temperature Monitor	Analog Output (30 mV/°C)	Weight:	~3.0 lbs.
Forward/Reverse Detector	Analog Output (0-5V)	_	
Current Monitor:	Analog Output (1V=10A)		
PA Prime Power Status:	TTL Logic		

COMTECH PST proudly introduces its latest development for the TWT Replacement market covering the full 2000MHz to 6000MHz band providing 100 W in a small, compact, lightweight, ruggedized form factor, ideally suited for UAV, Airborne, Pods, Mobile, or Surface applications. This SSPA features built in protection and monitoring circuits, low voltage prime power input, high efficiency and reliable solid state technology. Units can be phase matched for phased array applications. Unit will self-protect under fault conditions and automatically return to normal operation when fault conditions are removed. The SSPA module withstands and operates reliably in rugged and hostile environments Comtech is a trusted recognized leader for advanced amplifier development utilizing the latest in RF technologies for Commercial TWT replacement applications. Our highly integrated products are also used in communication, EW, and radar systems where reliability is mission critical.

Contact your local Comtech PST representative, E-mail Address: <u>sales@comtechpst.com</u> SPECIFICATIONS ARE SUBJECT TO CHANGE · *Certified for Public Release (CPST PRM-16-22)*

Performance Specifications