

# Data Link Power Amplifier Module

## S & C-Band, 50 Watts – Model BME2969-50DL

Stellant PST introduces a wideband PA module for UAV data links, supporting S-Band and C-Band transmit links in a compact design. It features a low-power Go/No-Go mode for pre-flight confidence tests and a battle short mode for mission-critical transmission. Built for rugged environments with optimized SWaP, it excels in digital telemetry and HD video applications. Stellant remains a leader in RF amplifier technology for ISR, communication, EW, and radar systems where reliability is essential.



### KEY FEATURES

- CDL Waveform Capable – High Data Rates
- Ideally suited for UAV applications transmitting video, telemetry or other ISR functions
- Airborne and Ship Applications
- Linear Wide Bandwidth Performance (S-C Band)
- Rugged and Reliable into High VSWR Loads
- Go/No-Go Flight Line Low Power Test Module
- Optimal Size, Weight and Power (SWaP)

### SPECIFICATIONS




Frequency Range	2.2-2.5 & 4.4-5.85 GHz (2-6GHz)	DC Input	+28 VDC (Other voltages available)
RF Power Output	50W (60 Watts Saturated)	DC Power @ 28V	250W max
RF Input	-6 dBm typical	Efficiency (DC to RF)	25% typical
RF Input Overdrive	20 dBm max	DC Bias	AB Linear
Modulation Format	Digital Format (QAM)	Noise Figure	10 dB typical
Input VSWR	2.0:1 Max	RF Input/Output Connectors	SMA
Output Load VSWR	2.0:1 Full Power Output typical	Control/DC Connector	D-Subminiature
Harmonic (2nd/3rd)	< -14 dBc typical (-12 dBc Max)	Operating Temperature	-40-85°C Baseplate (external heatsink required)
Spurious	< -55 dBc	Environmental	Surface/Airborne
Stability	Open/Short all phase angles		100% Condensing Humidity Salt/Fog
<b>Control Interface</b>		Size	7.83" x 3.7" x 1.6"
PA Enable (Blanking)	TTL Logic	Weight	2.0 lbs max
Summary Fault Output	TTL Logic (Over Temp & Current)		
Temperature Monitor	RS 232 Serial Data		
Forward/Reverse Detector	RS 232 Serial Data		
Battle Short Mode	RS 232 Serial Data		
Low Power Mode	RS 232 Serial Data		

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