Product Bulletin

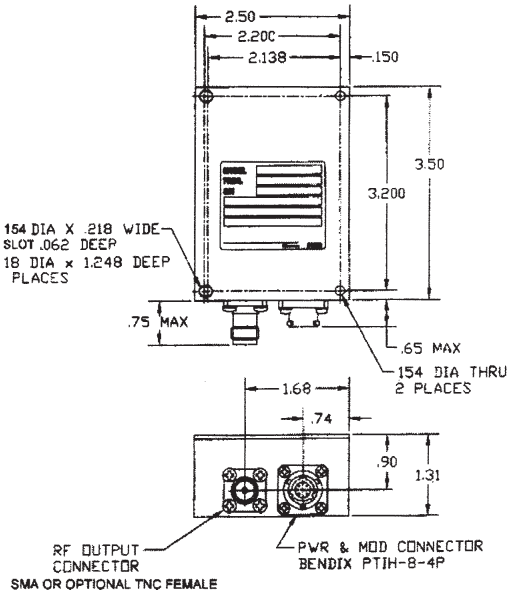
T702/705

DC Response Telemetry Transmitters

Airborne Telemetry Products

FEATURES

- DC Response
- 2 and 5 Watt
- FM
- Range Qualified
- L, S and Upper “S” Band Coverage
- 11.4 Cubic Inches



L3 communications

SPECIFICATIONS

Power Matrix

Model Number	Output* Power (Min).	Input Current (Max)
T702L	2 Watts	.65A
T702S/HS	2 Watts	.80A
T705L	5 Watts	1.4A
T705S	5 Watts	1.8A

(*50 OHM LOAD; 1.5:1 VSWR MAX. FOR SPECIFIED MINIMUM OUTPUT POWER)

Electrical

Frequency Range:	1435 MHz - 1540 MHz 2200 MHz - 2300 MHz 2310 MHz - 2390 MHz Fixed Frequency (Factory Set)
Frequency Stability:	±0.003%

Power Requirements

Voltage:	28 ±4 VDC
Current:	See Power Matrix
Isolation:	Band Modulation Return are common to Chassis Ground
Reverse Polarity and Overvoltage Protection:	The application of ±40 VDC will not damage the unit
VSWR:	Isolater protected against damage from any VSWR

Modulation Characteristics

Type:	FM
Coupling:	DC
Deviation Sensitivity:	L-Band: 300 kHz peak/VRMS ±10% S-Band: 500 KHz peak/VRMS ±10%
Carrier Deviation:	L-Band: 350 kHz peak S-Band: 500 kHz peak
Frequency Response:	DC to 500 kHz ±1.5 dB
Input Impedance:	10K ohm min. shunted by 10pF max.
Distortion:	2% max.
Incidental Frequency Modulation:	5 kHz peak max.
Incidental Amplitude Modulation:	5% max.

Environmental

Temperature	
Operating:	-20°C to +70°C, Baseplate
Non-Operating	-55°C to 100°C
Vibration	
Sine:	20g, 20-2000 Hz, 3 axes
Random	$0.1g^2$/Hz, 20-2000 Hz, 3 axes
Acceleration:	100g, 3 axes
Shock:	100g, 11 msec., 3 axes
Altitude:	Unlimited
Humidity:	MIL-STD 810C, Method 507
EMI:	MIL-STD 461A. (IRIG 106 for Antenna conducted and radiated.)

Options *(Consult Factory)*

- Higher Efficiency (Lower Input Current)
- Other Connector Styles
- Extended Temperature Range (-40°C to +85°C)
- Isolation (Power and/or Modulation Returns)
- Higher Vibration/Shock Levels
- Extended Frequency Response
- Extended Carrier Deviation
- Negative Sense

Gains and Linearity

- Center Frequency
- Deviation Sensitivity
- Modulation Input Impedance

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