

TT22

Telemetry Transmitter



TT22

- 1710-1850 or 2185-2485 MHz
- Fixed or Agile Frequency
- 0.25 Watts
- FCC Part 90 Type Accepted
- Customer Specified Carrier Deviation

The TT22 series of 0.25W telemetry transmitters are designed to transmit data in the frequency bands covering 1710-1850 MHz or 2185-2485 MHz. These transmitters are true FM, modular, all solid state and are protected for operation into any VSWR, without damage, including open or short circuit.

Rugged construction, minimum size and light weight make these transmitters ideally suited for airborne applications and where operation in harsh conditions is required. Multiple frequency operation is achieved by utilization of a frequency synthesizer.

Transmitters may be ordered as fixed frequency or any number of channels in a given band, spaced in 0.5 MHz increments.

The Series TT22 telemetry transmitter comes with SEMCO's 2 year warranty on parts and labor.

Systems Engineering & Management Co.
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Technology & Innovation For A Safer World

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TT22 SPECIFICATIONS

Transmitter (Telemetry)

Power	.25 Watt
Frequency	1710-1850 MHz or 2185-2485 MHz
Output Impedance	50 ohms nominal
Spurious Emission	Per IRIG 106-11
Type	FCC Part 90

ELECTRICAL SPECIFICATIONS

Frequency Range	1710-1850 MHz or 2185-2485 MHz (standard)
Frequency Selection	Multi-channel (optional)
Frequency Stability	+0.003%
Output Power Switchable	250 milliwatts
Output Impedance	50 ohms nominal
Spurious Emissions	Per IRIG 106-11

MODULATION SECTION

Type	FM
Input Impedance	75 ohms (standard), (1K ohms special order)
Carrier Deviation	Customer specified in kHz peak*
Linearity	+2% BSL
Incidental AM	2% maximum
Incidental FM	+5 kHz maximum

ENVIRONMENTAL SPECIFICATIONS

Temperature	0 to +50 degrees C Baseplate (standard)
Vibration	Sine, 10 G peak, 20-2000 Hz, 3 axes
Humidity	100% non-condensing (MIL-STD-810 Method 507)
Altitude	Unlimited
EMI-RFI	Per IRIG 106-93

POWER REQUIREMENTS

Input Voltage	+11 to +16 VDC
Input Current	0.250 amp @ 250 milliwatts output

CONNECTORS

Modulation Input	9 pin micro D
Data, Power Input	9 pin micro D
RF Output	SMA female

MECHANICAL

Size	2.10 x 3.54 x 0.50 inches
Weight	3 ounces
Volume	3.4 cubic inches

OPTIONS

Frequency Ranges	1710-1850 MHz or 2185-2485 MHz
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*Example: at 1MB, a 350kHz peak deviation is specified given a 1Vp-p input.

Special orders, please confirm requirement before order.

Specifications subject to change without notice.

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