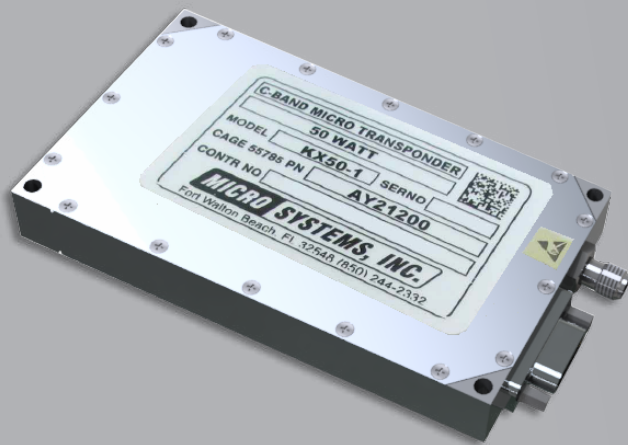


MODEL KX50 MICRO-TRANSPONDER

50-Watt C-Band Radar Transponder



Features

- ▶ Industry leading reduced SWaP
- ▶ 3.5 cubic inch volume
- ▶ Ideal for small missiles and UAS
- ▶ Fully Programmable
- ▶ 50 Watts minimum peak power output
- ▶ -68dBm Receiver Sensitivity
- ▶ Solid State Design
- ▶ RCC262-14 Compliant

Applications

- ▶ Missiles
- ▶ Guided Weapons
- ▶ Manned Aircraft
- ▶ UAS
- ▶ Aerial Targets
- ▶ Space Launch Vehicles

The Kratos KX50 Micro-Transponder is the next generation of C-Band Radar Transponders. It is a micro-compact, precision augmentation system for enhancing the tracking capability of C-Band Radars. The KX50 is particularly suitable for small missiles, guided weapons, and UAS where size, weight and power are at a premium.

The Kratos KX50 provides a reliable solid state transmitter using the latest in GaN technology. The result is low modulation pulse voltages, increased reliability, infinite shelf life, and no maintenance requirements. The transmit frequency, receive frequency, single / double pulse interrogation, code spacing, reply delay, and transmit pulse width are externally programmable.

The Kratos KX50 Micro-Transponder provides users with unparalleled ease of use and substantial cost savings for testing, systems maintenance, and operational parameter changes. The KX50 is compatible with Kratos' Model 38-4 C-Band Mini Tester and Model 41 C-Band Transponder Test Set.

Kratos C-Band Transponders provide enhanced pulse parameters capabilities incorporating the latest range requirements to expand the operational capability of existing C-Band radar systems.

MODEL KX50 C-BAND MICRO-TRANSPONDER

Environmental

- ▶ Temp, Operating: -40°C to +85°C
- ▶ Temp, Storage: -54°C to +95°C
- ▶ Vibration: MIL-STD-810
- ▶ Altitude: 85,000 feet
- ▶ Acceleration: 50 G's all axis 1 minute
- ▶ Shock: 100 G's all axis 6 msec, 120 G's all axis 4 msec
- ▶ Humidity: 100%
- ▶ EMI/RFI: MIL-STD-461, Class A1 equipment, IAW MIL-STD-462

Electrical / Performance

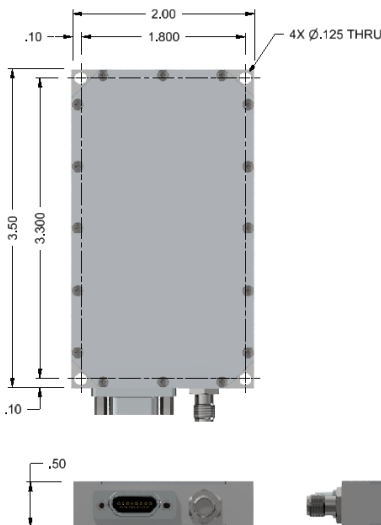
- ▶ Input Voltage: 10 to 34 VDC
- ▶ Reverse Polarity: Series diode protection
- ▶ Impedance: 50 ohms
- ▶ Power Consumption: 14.4 Watts maximum
- ▶ Transmitter Power Output: 50 Watts peak minimum
- ▶ Receiver Dynamic Range: -68 dBm to +20 dBm
- ▶ Transmit / Recieve Frequency Range: 5.4 to 5.9 GHz programmable

Physical

- ▶ Size: 2.0" W x 3.5" L x 0.5" H (5.08cm x 8.89cm x 1.27cm) excluding connectors
- ▶ Volume: 3.5 cubic inches
- ▶ Weight: 8 ounces max (227 grams)
- ▶ Power / Interface Connector: 15-Socket Micro-D
- ▶ RF Connector: SMA Female

Part Number

- ▶ AY21200, Model KX50-1



PRELIMINARY

- 35 Hill Ave.
Fort Walton Beach, FL 32548
- [Send Us a Message](#)
- www.kratosdefense.com
- (850) 244-2332