The C-Band Radar Tracking Transponders are compact precision augmentation systems for enhancing the tracking capability of C-Band Radars. The 50 watt unit is 30% smaller than comparable units. It is particularly suitable for small missiles, targets, and aerial vehicles where weight and space are of a premium.

These units offer an industry first, offering a reliable solid state transmitter and using the latest in GaAs technology. The result is low modulation pulse voltages, increased reliability, infinite shelf-life, and no maintenance requirements. The transmit frequency, receive frequency, and all pulse code parameters are externally programmable using a standard PC – another industry first. This series of transponders provides a substantial savings of time and money for testing, systems maintenance, and operational parameter changes. Minimum peak power outputs of 20, and 50 watts are available.

Our C-Band Transponders provide enhanced pulse parameter capabilities incorporating the latest range requirements in an effort to expand the operational capability of existing C-Band radar systems.
**Model 25X-X C-Band Radar Transponder**

**Data Sheet & Technical Specifications**

### Environmental
- **Temp, Operating:** -40°C to +71°C; -54°C to +85°C
- **Temp, Storage:** -62°C to +95°C
- **Vibration:** MIL-STD-810C
- **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-461C, Class A1 equipment, IAW MIL-STD-462

### Electrical
- **DC Power:** 22 to 34 VDC (28 VDC nominal)
- **Reverse Polarity:** Series diode protection
- **Impedance:** 50 ohms
- **Power Consumption:** 9 Watts maximum (320 mA @ 28 VDC)

### Physical
- **Size:** 3.50" W x 1.40" T x 3.95" D
  
  (8.9 x 3.6 x 10 centimeters)
- **Weight:** 18 ounces (510 grams)
- **Volume:** 18 cubic inches (295 cubic cm)
- **Power Connector:** MS2746Y08D35P