Registered to AS9100D: 2016 & ISO 9001: 2015

C-BAND RADAR TRACKING TRANSPONDERS

MODELS 252 & 253

DATA SHEET & TECHNICAL SPECIFICATIONS



Features

- ▶ Small footprint ideal for missiles and smaller unmanned vehicles.
- ▶ Enhanced Pulse parameter capabilities
- ▶ 30% smaller than comparable units
- Minimum peak power outputs of 20 Watts or 50 Watts
- ▶ Infinite Shelf Life
- Reliable Solid State Transmitter using the latest GaAs technology

Applications

▶ Vehicle Tracking

The C-Band Radar Tracking Transponders are compact precision augmentation systems for enhancing the tracking capability of C-Band Radars. 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, providing 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 or 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.



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Electrical

DC Power: 22 to 34 VDC (28 VDC nominal)

▶ Reverse Polarity: Series diode protection

▶ Impedance: 50 ohms

▶ Power Consumption: 11 Watts maximum (393 mA @ 28 VDC)

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

Physical

▶ Size: 3.50" W x 1.40" T x 3.95" D

 $(8.9 \times 3.6 \times 10 \text{ centimeters})$

▶ Weight: 18 ounces (510 grams)

▶ Volume: 18 cubic inches (295 cubic cm)

▶ Power Connector: MS27476Y8D35P

Programmable:

- Transmit Frequency
- Receive Frequency
- Reply Delay
- Pulse Coding Type (Single/Double)
- **Pulse Spacing**
- **Pulse Width**

Models included: 252-2, 252-3, 253-2, 253-3



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