



Product Sheet

UHF Datalink Transponder

UHF DATALINK TRANSPONDER

Model 290

The Model 290 UHF datalink transponder enables reliable command, control, and telemetry communications between the ground control station and the flight vehicle's autopilot.

Qualified to MIL-STD-810, the UHF Transponder is designed to support harsh avionic environments while maintaining reliable, essential communications. It also has three antenna ports to support multiple antenna inputs via the vehicle RF switch. Multiple antenna inputs can be toggled through for the strongest signal.



Features

- 16 Available Frequency Channels from 358 MHz to 380 MHz
- GMSK Modulation
- Greater than 3W RF Output Power

Applications

- Autopilot Interface
- Command and Telemetry

Environmental

Temperature:	-40°C to +71°C
Vibration:	Random, 15 to 2000 Hz, 9.3 G 30 minutes per orthogonal axis
Altitude:	50,000 ft
Shock:	Sawtooth, 20 G for 11ms, 18 shocks total
Humidity:	Up to 95% @ 40° C (all boards are conformal coated)

Power Requirements

DC Power:	22 VDC to 32 VDC (28 VDC Nominal)
Reverse Polarity:	Yes
Power Consumption:	80 Watts maximum (2.9 amps @ 28 VDC)

Physical

Size:	2.95" H x 5.00" W x 6.00" D
Weight:	6 lbs
Connectors:	Circular, SMA Female x3
Finish:	Black Paint
Installation:	Flange Mount Base Plate

