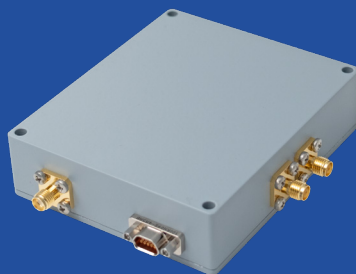# TUALCOM

5-18 GHz ACTIVE RADAR REFLECTOR

GENERAL DESCRIPTION

TUALARIA is a compact Active Radar Reflector designed for military training missions involving radar guided missiles. The device operates in C, X and Ku Band. Two-antenna system amplifies incoming signal and retransmits it according to the programmed Radar Crossection Level.

Device can be ordered with RHCP or LHCP spiral antennas so system supports all type of polarizations. Involving programmable attenuator, gain of the system can easily be programmed through RS-232 interface. Setting is kept in the memory so user can adjust gain before the flight as well as on the fly.

BENEFITS

- **Low SWaP for drone based decoys (MALD)**
- **SEAD (Supression of Enemy Air Defence) Drones**
- **Radar Test & Validation Studies**
- **Radar Guided Missile Test & Validation**
- **RF Seeker Test & Validation**
- **RF Proximity Fuse Test & Validation**
- **Surface-to-Air Missile Test/Training Drone**
- **Air-to-Air Missile Test/Training Drone**
- **Anti-Ship Missile Test/Traning Drone**
- **For radar guided missiles;**
    - **- Emulates air targets with specified RCS**
    - **- Emulates surface targets with specified RCS**

5-18 GHz ACTIVE
RADAR REFLECTOR

Weight (g)
192

Dimensions (cm)
9.5 x 6.2 x 1.6

Frequency Range
5-18 GHz

Max. Gain
> 60 dB

RF Attenuation Range
0-31 dB

Input Voltage
16-32 Vdc

Power Consumption
< 4 W

Programming Interface
RS 232

Operating Temperature
-40 °C To +80 °C

Environmental Condition
MIL-STD-810G

EMI/EMC
MIL-STD-461F

RF Connector
SMA

Power & I/O Connector
9-pin Micro-D Socket

KEY SPECIFICATIONS

- High Efficiency
- Light Weight
- Compact Size
- Programmable Gain

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