THALES

www .thalesgroup.com/uk

LTDM is a compact, lightweight and low cost STANAG 3733 compliant 1064 nm laser target designator/marker module. The LTDM is suitable for use with custom designation PRF codes, A-Codes and PIM codes. The LTDM is designed to be integrated into a wide range of host systems, including hand-held equipment and gimbals.

OPTRONICS AND MISSILE ELECTRONICS

LTDM

Laser Target Designator Module

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APPLICATIONS

FEATURES & BENEFITS

- Compact and lightweight
- Diode – pumped laser cavity
- Patented technology
- No liquid cooling requirement
- Solid state high reliability design
- STANAG 3733 compliant (A-Code compatible, PIM compatible)
- Low power consumption
- Straightforward integration into OEM systems

TECHNICAL SPECIFICATIONS

- Size: 140 x 71 x 56 mm(1) (5.5x3x2.2”)
  171 x 71 x 64 mm(2) (6.7x3x2.5”)
- Weight: < 650g(1)
  < 850g(2)

DESIGNATION PERFORMANCE

- Compliant to STANAG 3733

RANGING PERFORMANCE

- Max range (Tank(3)) approx. > 10 km(2)
  > 7.5 km(1)
- Minimum range: 100m
- Range accuracy: +/-2.5m
- PRF: 8 to 20 Hz
- Note: non-eyesafe ranging only

LASER CHARACTERISTICS

- Wavelength: 1064 nm
- Output energy: > 50mJ*
- Beam divergence: < 500 µrad(1)
  < 300 µrad(2)
- Software Selectable 50mJ/30 mJ
- Into Action Time: <5 seconds

POWER CONSUMPTION

- < 35W during designation
- < 50 mW standby

TEMPERATURE RANGE

- -40 °C to +71 °C operational(4)
- -55 °C to +85 °C storage
- Complies with MIL-STD-810G

MTBF

- >1,000,000 shots

INTERFACE CONNECTOR

- SAMTEC 40-way
- TFM-120-02-S-D-DS Male (Double-Row)
- Pitch: 1.27 mm

INPUT POWER SUPPLY

- 9-16.8 V DC
- Peak Current: < 5 A (at 12V)

COMMUNICATIONS PROTOCOL

- RS-422/RS-485

LASER COMPLIANCE

- IEC 60825-1:2014, Class 4

EMC COMPATIBILITY

- Complies with MIL-STD-461F

*STANAG compatible

Note 1: 0.5 mRad divergence variant

Note 2: 0.3 mRad divergence variant

Note 3: 2.3mx2.3m target, 0.3 albedo, range depends on atmospheric conditions and host sighting optics (if present)

Note 4: Contact Thales for duty cycle details

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