



DLT3 Series  
Tape Mount



DLM3 Wall  
Mount



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Tape Mount  
(back)

## Dual Polarity Antennas (Pat.Pnd.) RFID & ISM Applications

- Dual polarity maintains very compact package
- 3 dBi gain for RFID & 902-928 MHz ISM
- Weatherproof radomes; perfect for in-building & outdoor coverage
- Wall swivel mount or tape mount provides flexible installs

Mobile Mark's dual polarity antennas round out our offering for UHF RFID and ISM applications. Dual polarity antennas can be very useful for many specialized applications, where traditional patch antennas could be prohibitive. These antennas can be very useful for forklift and smart shelving applications, conveyor applications and other near to mid-field uses. They are also particularly useful where the corresponding tags are in a fixed position with little variation. As such, the antenna can be placed to maximize read rates.

The DL Series antennas are available in versions for both US UHF RFID and Europe. Advanced circuit board based technology provides an optimal radiation pattern and efficiency on the proper bands. These dual polarity antennas provide a more compact design, fitting into locations where traditional antennas might not. Yet dual polarity also maintains a higher level of read probability, superior to linear polarized applications.

The DLT3 antennas are provided with double sided tape for extremely simple and stable mounting applications. The DLM3 series are supplied with a versatile swivel wall mount, that allows adjustment +/- 45°. The wall mount

also provides a hose clamp, usable for mounting to a pole or any vertical truss up to 2 inches (50 mm). Swivel Mounted horizontal to a wall, the antenna would stand out approximately 3 inches (76 mm). The antennas terminate with 6 inches of RG-58 cable (152 mm) and SMA plug connector. Other configurations are available upon request.

The radome on all models is 4.5 inches (114 mm) diameter, and 1 inch (25mm) deep. The radome is highly durable white ABS plastic, a black radome is also available upon request.

### Model Number

Models	Description
DLT3-868	Dual Polarity, Tape mount for EU RFID
DLT3-915	Dual Polarity, Tape mount of US RFID
DLM3-868	Dual Polarity, Wall mount for EU RFID
DLM3-915	Dual Polarity, Wall mount for US RFID

Standard cable connectors are 6" (152 mm) RG-58 & SMA. For other connector & cable configurations, please consult factory.

### Specifications

#### Frequency:

DLT3 & DLM3-868 865 - 870 MHz

DLT3 & DLM3-915 902 - 928 MHz

#### Gain:

3 dBi - Dual Polarity

#### Bandwidth @2.0:1 SWR:

See Freq above

#### Impedance:

50 Ohm nominal

#### Maximum Power:

10 Watts

#### Beamwidth:

60° effective EI & Az

#### Front-to-Back ratio:

10 dB typical

#### Lightning Protection:

External recommended

#### Antenna Radome:

White ABS standard, black ABS available upon request

#### Operating Temp:

-40°C to +85°C

#### Mounting:

DLT3 Models Flush tape mount

DLM3 Models Swivel Wall/pole mounting

#### Radome Size:

4.5" D x 1" (114 mm x 25mm)

#### DLM3 Swivel:

+/- 45° from center

#### DLM3 Standoff:

3 inches (76 mm) when set parallel to wall, to front face

#### Weight:

1.1 lbs (0.5 kg)

#### Termination:

6 inches RG-58 (152 mm)

#### Connector:

Male SMA

#### Sense Detection:

DC Shorted  
(Reader dependent)

For special configurations, please consult factory.