



Patch Dual-Polarity 3 dBi, RFID & ISM

- 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 can be very useful for many specialized applications, where traditional patch antennas could be prohibitive. These antennas can be very useful for forklift, shelving projects, 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 both US UHF RFID and European RFID versions. 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 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 Dual Polarity Series has a DC shorted front end and is compatible with antenna sensing circuits found in the current generation of RFID readers. If your reader has a feature that requires a 10K ohm resistor, the dual polarity antenna can be special ordered with this feature.

Model #	Description
DLT3-868-1C-WHT-6	Dual Polarity, Tape mount
DLT3-915-1C-WHT-6	Dual Polarity, Tape mount
DLM3-868-1C-WHT-6	Dual Polarity, Wall mount
DLM3-915-1C-WHT-6	Dual Polarity, Wall mount

For other connector & cable configurations, please consult your sales representative.

Specifications			
Frequency:		Radome Size:	4.5" D x 1" (114 mm x 25mm)
DLT3 & DLM3-868	865 - 870 MHz	DLM3 Swivel:	+/- 45° from center
DLT3 & DLM3-915	902 - 928 MHz	DLM3 Standoff:	3 inches (76 mm) when set parallel to wall, to front face
Gain:	3 dBi - Dual Polarity	Termination:	6 inches (152 mm), White RG-58
VSWR:	2:1 max over band	Connector:	SMA Plug (Male)
Impedance:	50 Ohm nominal	Sense Detection:	DC Shorted (Reader dependent)
Maximum Power:	10 Watts	Shock and Vibration:	IEC 60068, EN 300 019-2-4
Beamwidth:	60° effective El & Az		
Front-to-Back ratio:	10 dB typical		
Lightning Protection:	External recommended		
Antenna Radome:	White ASA		
Operating Temp:	-40°C to +85°C		
Weight:	1.1 lbs (0.5 kg)		
Mounting:			
DLT3 Models	Flush tape mount		
DLM3 Models	Swivel Wall/pole mounting		