

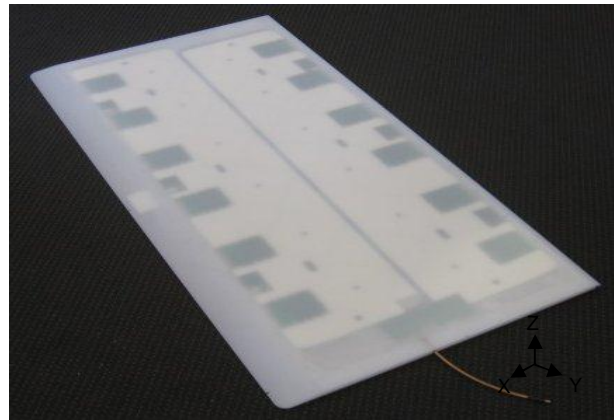
SlimLine A6011

CIRCULAR POLARISED UNDERBELT ANTENNA

Overview

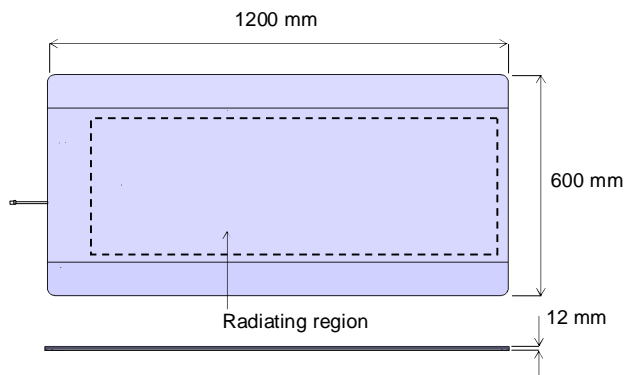
The SlimLine A6011 is a circular-polarised flat panel antenna array encased in an ultra-low-profile UHMWPE (Ultra-High Molecular Weight Polyethylene) radome. It is especially suited to conveyor-belt-based UHF RFID applications, such as airport baggage handling.

At just 12 mm high, the A6011 is designed for easy installation. It can be quickly and easily installed on the bed of the conveyor, directly beneath the moving belt. The UHMWPE⁷ radome eliminates wear issues.



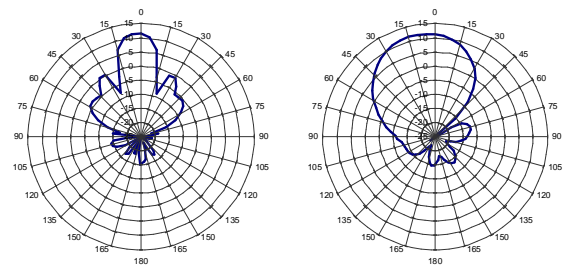
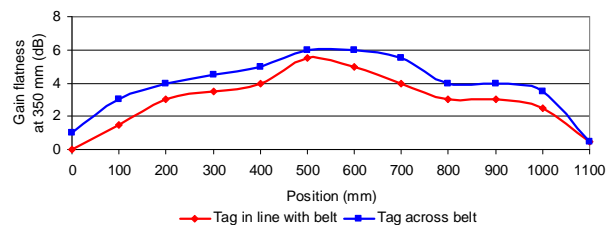
Mechanical/Environmental Specifications

- Radome material: 3mm UHMWPE
- IP rating: IP54
- Dimensions: L: 1200mm W: 600mm H: 12mm
- Radiating area dimensions: L: 1100mm W: 485mm (approx)
- RF connector: SMA Female on 300 mm lead
- Electrostatic protection: yes (dc short)
- Operation and storage temperatures: 0°C to + 50°C, - 30°C to + 60°C



Electrical Specifications

- Frequency bands ETSI 864 MHz . 869 MHz and FCC 902 MHz . 928 MHz
- Polarisation: circular polarized
- Return loss: VSWR < 2:1
- Front to back: > 22 dB
- Read zone above belt: up to 900 mm
- Read zone across belt: up to 1200 mm
- Peak farfield gain: 11 dBi
- Underbelt antenna nearfield performance . see below
- Impedance 50 Ω



XZ plane YZ plane
Circular polarised E-field elevation and azimuth patterns

Ordering

Please quote both product code and part number.

Product Code	Band	Part No.
A6011	ETSI	70730
A6011	FCC	70731

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