

MT-242042/NLH

902 – 928 MHz 7 dBic LHCP Forklift Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	902 – 928 MHz
Gain	6.5 dBic min , 7.5 dBic max
VSWR	1.3:1 typ, 1.5:1 max
3 dB Beam Width	Azimuth: 75° Elevation: 75°
Polarization	LHCP
Axial Ratio at Bore sight	3.5 dB max
F/B Ratio	-15 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions L x W x D	190 x 190 x 53 mm max
Weight	2 Kg max
Connector	Right angle N-Type female
Radome	TBD
Structure	Flat antenna housed in Aluminum with chemical conversion coating enclosure

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	48 h	-35 °C	
High Temperature	IEC 68-2-2	48 h	+85 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45°C to +70°C	3 Cycles
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Dust Resistance				IP67
Solar Radiation	ASTM G154	1000 h		
Ozone Resistance	ETSI 300			
Flammability	UL94			Class HB
Salt Spray	IEC 68-2-11 Ka	500 h		
Quasi Random Vibration			20 g rms for 4 hours	
Vehicle Vibration Operating	Test level: 6.9 gRMS, 20.6 gPEAK.	2 h in each direction	6 hours total, 2 h in each axis.	Accelerated
Mechanical Shock Operating	50g, 8 msec, half sine pulse		5000 impacts per direction	
Load Stress		250 lb in the center of the antenna		
Impact resistance	Nine impacts of 500 gram steel ball from a drop height of 1 meter			

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