



Technical specification – M-C Exterior Antenna

Note: The specifications are subject to change without notices.

24390-03 M-C Exterior Antenna			
Mounting Type	Screw Mount		
Dimensions (mm)	80 x 74 x 25.6		
Max. Tighten Torque (Nm)	5 Nm		
Radome type	ASA UV Stable		
Radome color	Black, White		
Operating Temperature (C)	-40 to +85		
Storage Temperature (C)	-40 to +85		
Substance Compliance	RoHS		
Certificates	IP67, IP69		
Cable 1			
Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-11.7	~-7.9	~-21.6
VSWR	~2.0:1	~2.4:1	~1.2:1
Efficiency (%)	~42.5	~40.1	~48.0
Peak Gain (dBi)	~2.6	~4.0	~5.5
Average Gain (dB)	~-3.8	~-4.4	~-3.2
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		
Cable 2			
Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-12.0	~-7.9	~-20.7
VSWR	~1.9:1	~2.4:1	~1.2:1
Efficiency (%)	~41.2	~40.4	~48.0
Peak Gain (dBi)	~1.3	~4.1	~6.0
Average Gain (dB)	~-4.0	~-4.4	~-3.2
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		
Cable 3			
Parameters	GPS/GLONASS Antenna		
Standard	2G,3G and 4G		
Band (MHz)	GPS/QZSS/Galileo	GLONASS	
Frequency(MHz)	1575	1602	
Patch Size (mm)	1575.42	1598-1606	
Return Loss (dB)	18 × 18 × 4		
VSWR	<=15.0 dB		
Impedance	<=1.4:1 dB		
Radiation Pattern	50		

Polarization	Hemispherical
Saw Filter	RHCP
Active Gain (dB)	Pre-filter
Noise Figure (dB)	28 @ 2.7 V
Voltage (V)	1.5 Typ
Current (mA)	1.5 – 3.6
Power Consumption (mW)	9 Typ
ESD Protection (kV)	24.3 Typ
Connector Type	2kV
Cable Length	SMA-Male Standard (Other Connectors Available)
Cable Type	300 cm Standard (Any Cable Length Available)