SDAR (Satellite Digital Audio Radio) Antenna

MODEL: XM-38



- High Gain & Low Noise
- ESD Resistance up to 8KV (Contact Discharge)
- Waterproof for Better Reliability
- Sirius and XM Radio Compatible

Applications

- Performance Enhancement for Satellite Digital Audio Radio Systems with a Switch Circuit for an Optional Antenna
- Sirius Radio (U.S.) compatible car/ table/ portable radios and other kinds of radios
- XM Radio (U.S.) compatible car/ table/ portable radios and other kinds of radios

Specification

Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
40.5mm (L) x 38mm (W) x 12.3mm (H)
50grams (w/o cable & connector).
Standard in ivory black
Magnet mount with two magnets & screw mount
5 meter RG174
6 Kg @ 5sec. molded plastic on connector end for strain relief.
SMA / SMB / SMC / MCX / MMCX / BNC / TNC /
2338.75 MHz +/-6.25 MHz
R.H.C.P. (Right Handed Circular Polarization).
+2 dBi typical.
1 dBi typical.
3 dB max.
2.0 max
50 ohm
2338.75+/-6.25 MHz
30db +/-1db

Bandwidth:	10 MHz min.
Noise Figure:	1.0 typ
Outer Band Attenuation:	10 dB min. @ Fo +/-10 Mhz.
Supply Voltages:	4~5.5V DC.
Current Consumption:	4V : 10.3 mA Typical
	4.5V : 12 mA Typical
	5V: 13 mA Typical
	5.5V: 15 mA Typical
Output Impedance:	50W ohm
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	2338.75+/-6.25 Mhz.
Gain:	At 90° vertical to sky 30 ± 4.5dBi
	(cable loss) Note:1
	Mounted on the 60mm x 60mm square ground plane
Noise Figure:	1.0 max.
Axial Ratio:	2 dB max.
Bandwidth:	10 MHz min. @S11≤-10 dB
VSWR:	2.0 max.
Output Impedance:	50W ohm
Environmental	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-40°C~ +90°C.
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.

Data Updated: JUL.02, 2010

 $^{*\}ensuremath{\mathsf{This}}$ specification is subject to change without prior notice