

Antenna for Automotive Radar Radio

Trade Name : Wistron NeWeb Corporation (WNC)

Model Name: UMD-RI03, UMD-RI03 -L, UMD-RI03 -R

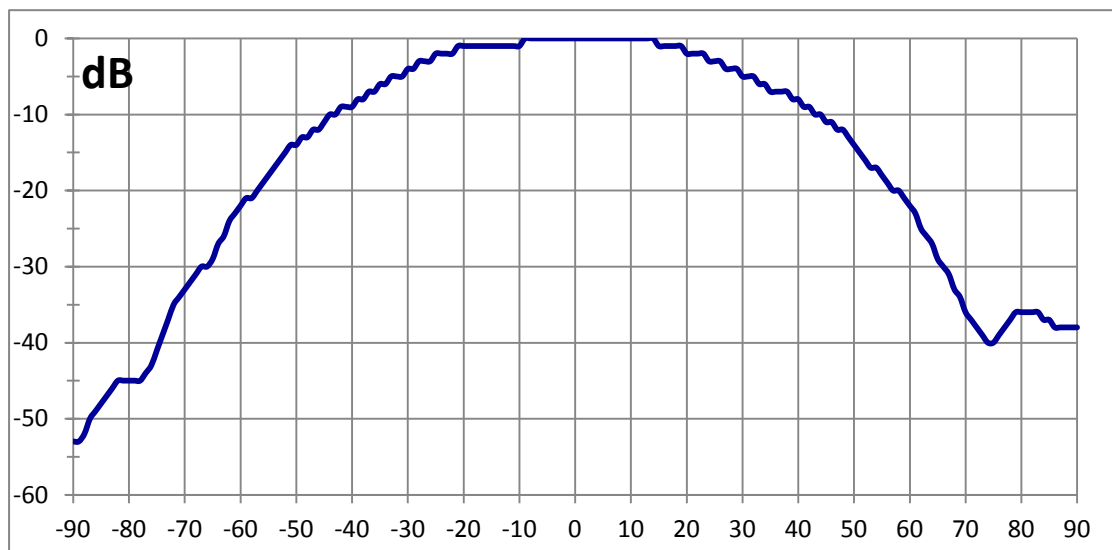
■ Feature

- Patch array
- Linear polarization
- Wide-beam detection
- Narrow-band operation
- RoHS compliant

■ Antenna design



■ Azimuth Pattern



■ Electrical specification

Parameter	Test Condition	Limits			Unit
		Min	Typ	Max	
Operation Frequency		24,000		24250	MHz
Center Frequency			24,125		MHz
Bandwidth			250		MHz
Antenna Peak Gain	Transmitting Antenna		14		dBi
	Receiving Antenna		13		dBi
Elevation BW3dB			±5		Degrees
Azimuth BW3dB			±26		Degrees
Elevation BW10dB			±10		Degrees
Azimuth BW10dB			±43		Degrees
Operation Angle (Azimuth)			±50		Degrees
Downtilt			±1		Degrees
Feed Impedance			50		Ohm
VSWR at Antenna I/P		2:1		3:1	

■ Environmental Characteristics

Parameter	Test Condition	Limits			Unit
		Min	Typ	Max	
Operation Temperature		-40		+85	°C
Storage Temperature		-40		+105	°C
Relative Humidity		5		95	%