

Very low profile antenna for ISM, lighting, IoT

Antenova introduced its REFLECTOR[®] antenna technology (patent pending) and its family of antennas for metal surfaces in 2018.

The REFLECTOR antennas are manufactured with a layered construction which allows them to function well when mounted on or close to metal surfaces. The antennas can be placed against any material and will not de-tune. This useful development won the coveted Hardware Award at Embedded World 2018.

For 2019, Antenova has refined the concept to create a thinner antenna. This new part, named Magna, Part no. SR4I051 can be inserted into small devices such as light fittings, to enable the next wave of smart building and smart city roll-outs.

The SR4I051 antenna is for ISM applications. It is a rigid antenna with a cable, enabling it to be connected directly to the host device, which can be plastic, metal or a PCB. It is designed for easy integration - with "plug and play" simplicity, and the cable is available in two lengths: 100mm and 150mm.

It can be used in smart lighting, portable devices, set top boxes, network devices, wearable devices and MIMO systems.

Features:

- REFLECTOR[®] technology
- Very low profile, only 1.6mm
- ISM bands
- Maintains high performance within a device
- 1.13mm diameter RF cable with IPEX MHF connector
- Self-adhesive for easy mounting



Antennas for Wireless Applications

Antenna characteristics:

	Typical
Peak gain	1.40dBi
Average gain	-2.80dBi
Average Efficiency	>50%
Max return loss	<-10dB
Max VSWR	1.6:1

General data:

Part number	SR4I051
Frequency	863-928 (MHz)
Polarization	Linear
Operating temperature	-40°C - +85°C
Dimensions	23.0 x 14.5 x 1.6(mm)
Impedance	50 ohm
Weight	<3g
Cable length	150 / 200 (mm)
Connector	MHF IPEX

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