UGV ANTENNAS

Damped Oscillation Antenna

Radiall is pushing the boundaries of innovation with a cutting-edge line of antennas built for the technologies of tomorrow—including its debut antenna engineered exclusively for Unmanned Ground Vehicles (UGVs). Built for rugged performance, these specialized solutions are ready to meet the demands of next-gen applications.

Leveraging proprietary technology developed by Radiall, the antenna base offers both the flexibility to adapt to a wide range of constraints and effective vibration damping to eliminate parasitic oscillations. This not only preserves transmission quality but also minimizes mechanical wear, resulting in a longer lifespan for the antenna.

EXTENDED LIFESPAN

- Integrated spring and elastomer overmolding provide effective shock and vibration absorption, significantly reducing cable wear
- Spring protected against corrosion
- Crush-resistant design ensures spring protection

IMPROVED LINK STABILITY (ON HIGH GAIN ANTENNA)

- Significantly reduced oscillations - up to 10 times less than conventional spring antennas

The first vehicular antenna to combine flexibility with damped oscillation, delivering enhanced signal quality and a longer lifespan through a ruggedized connection.

RF CHARACTERISTICS	PART NUMBER ROBOT ANTENNA	
	TNC	N
900 – 950 MHz	R380200304	-
690 – 2700 MHz	R380901310	-
1.3 – 2.6 GHz	R380901307	-
2.2 – 2.5 GHz 3elts	R380500326	R380500328
2.2 – 2.5 GHz 4elts	R380500330	R380500331
4.4 – 5 GHz 3elts	R380500327	R380500329
4.4 – 5 GHz 4elts	R380500332	R380500333
5.1 – 5.9 GHz	R380901308	-
2.4 – 2.5 / 4.9 – 5.9 GHz	R380901309	-

FEATURES & BENEFITS

- *Stable signal - free from parasitic oscillations*
- *Extended lifespan thanks to reduced oscillations*
- *Built for harsh conditions with 90° bend capability*

APPLICATIONS

- *Multi-mission tactical robots*
- *Robots with possible rollover*
- *Strain relief applications*