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UGV ANTENNAS

Damped Oscillation Antenna

Synergy *is pushing the boundaries of innovation with a cutting-edge line of antennas built for the technologies of tomorrow 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 technology developed by Synergy, 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

Plot no. 845, DSIIDC Industrial Area KHASRA NO. 33/23 (0-7) & 37/4 (0-10)Gali no. 6, near Harnandi dharam kanta Mundka Industrial Area, New Delhi, Delhi, 110041

The first UGV 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	ST380200304	-
690 – 2700 MHz	ST380901310	-
1.3 – 2.6 GHz	ST380901307	-
2.2 – 2.5 GHz 5 dBi	ST380500326	ST380500328
2.2 – 2.5 GHz 6 dBi	ST380500330	ST380500331
4.4 – 5 GHz 5 dBi	ST380500327	ST380500329
4.4 – 5 GHz 6 dBi	ST380500332	ST380500333
5.1 – 5.9 GHz	ST380901308	-
2.4 – 2.5 / 4.9 – 5.9 GHz	ST380901309	-

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*

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