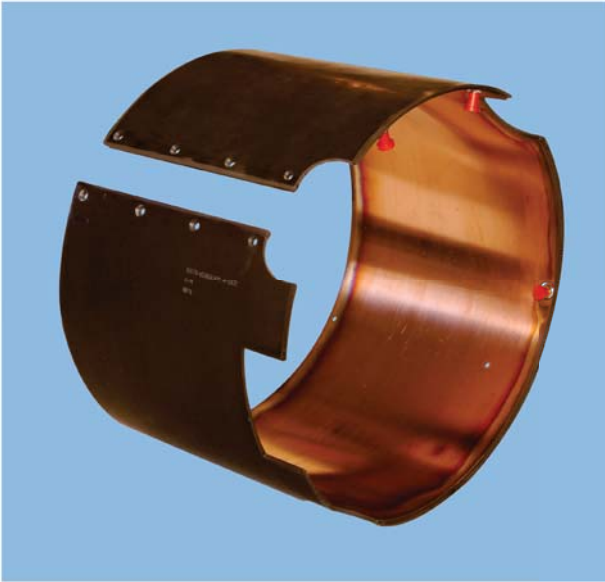




Microstrip Antennas



- Spherical Pattern Coverage
- Multi-Band Functions
- Compact
- Flush-Mounted

TECOM's Microstrip Antennas are available in several types and configurations. For example, the Type 256001 Tri-band antenna provides S-Band telemetry, Command Destruct and C-Band Beacon functions designed for a large diameter vehicle, whereas, the Type 102067 provides S-Band function only on a very small diameter vehicle.

Most antennas are linearly polarized and the individual radiating elements are phased to provide omnidirectional coverage around the vehicle. Antennas that provide circular polarization are also available.

TECOM can also design or build-to-print to any unique microstrip antenna requirement. Our designs for specific applications have included both single or multi-band configurations including, S, C, X and L-Band frequencies.

Electrical Performance Specifications					
Type Number	102067	102092	256001		
Function	Telemetry	Telemetry	Command	Telemetry	Beacon
Frequency Range	2.2 - 2.3 GHz	2.2 - 2.3 GHz	.406 - .549 GHz	2.2 - 2.29 GHz	5.4 - 5.9 GHz
Frequency Bandwidth	8 MHz	20 MHz	2 MHz	90 MHz	500 MHz
VSWR	1.5:1	1.5:1	2.0:1	2.0:1	2.0:1
Efficiency	70%	60%	55%	80%	80%
Power	20W CW	20W CW	Receive only	20W CW	20W CW
Temperature Range	-40°C to +70°C	-40°C to +250°C	500°F for 30 Sec. 200°F continuous		
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Connector	SMA	SMA	SMA	SMA	SMA
Polarization	Linear	Linear	Linear	Linear	Linear
Weight	3 oz / 85 g	12 oz / 340 g	3.51 Lbs. / 1.59 kg		

This series of antennas is designed to meet all applicable requirements of MIL-E-5400.