

1800MHZ Antennas

Antenna P/N		MT-252003/NV	MT-282025/ND	MT-283015/ND	MT-283014/NV	MT-283018/ND	MT-284001/N	MT – 285003/ND
Type		Vehicular	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber
Electrical								
Frequency Band	GHz	680 - 6000	1.3-1.525	1.78-1.85	1.78 - 1.85	1.78 - 1.85	1.85-1.99	1.78 - 1.85
Gain	dBi (Min)	4±1	10	13±0.5	14	14±0.5	14.5	18
Polarization		Linear Vertical	Dual Linear ± 45°	Dual Linear ± 45°	Linear Vertical	Dual Linear ± 45°	Linear V/H	Dual Linear ± 45°
Port-to-Port Isolation	dB (Min)	-	-30	18	-	20	-	-
AZ/EL BW	Degree	360/40	35/35	30/30	30/30	30/30	28/28	14/14
ETSI		N/A	DN2	N/A	N/A	N/A	DN4	N/A
Sidelobe Level	dB (Max)	-	15	-9	-12	-14	DN4	-9
Cross Polarization Level	dB (Max)	-	DN2	-15	-20	-20	DN4	-11
Front to Back Ratio	dB (Max)	-	DN2	-25	-25	-35	DN4	-35
VSWR 50 Ohm		<1.8:1	2:1	1.5:1	1.5:1	1.7:1	1.7:1	1.5:1
Max Input Power	Watt	25	6	6	6	6	6	6
Additional Features		EI. Tilt 20°	Dual Slant	Dual Slant				
		Circular Monopole						
Mechanical								
Size	mm	140x70x92	305x305x25	305x305x25	305x305x25	305x305x25	305x305x25	600x600x51
Weight	Kg (Max)	0.5	1.2	1.2	1.2	1.2	1.2	5
Connector		N-Type Female	2 x N-Type female	2 x N-Type female	N-Type female	2 x N-Type female	N-Type Female	2 x N-Type female
Mounting Kit			MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120019

Last Update: 15/01/2012

Environmental

Temperature Range	-45 to +70 degree per IEC 68
Vibration	Random 4M3 per IEC 60721
Mechanical Shock	4M3 per IEC 60721
Humidity	95% per ETSI EN300
Water Tightness	Per IEC 529 IP67 (IP52 for some BTS antennas)
Salt Spray	500 hours per IEC 68
Solar Radiation	1000 hours per ASTM G53
Ice and Snow	25mm Radial
Wind Speed	160 Kmph Operation/220 Kmph Survival
Flammability	UL-94HB

Notes

All specifications are subject to change without notice
Preliminary specs are for antennas under development
Upon request MTI may provide the complete spec controlled document for specific antenna

Key Features

- High-Quality Low-Cost
- Lightweight antenna with easy installation
- Low profile
- Environmental friendly
- Various polarities
- Various configurations such as standalone, integrated or internal component
- Narrow and broad band
- Meets ETSI electrical and environmental requirements
- Very aesthetic look

Benefits

- Provides High performance Low Cost subscriber
- Reduces the cost of installation
- Maintains real estate aesthetic look and value
- Generates low wind load