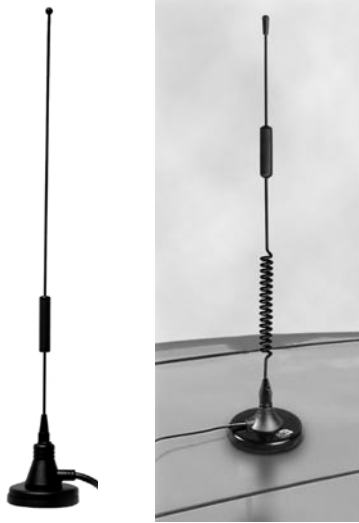


Magnetic Mount Antennas

[antenna, ASPRDM1994U, data sheet.pdf](#)



MDBM800/1900

ASPRDM1994



Magnetic Mount Antennas

Our magnet mount antennas are ideal for temporary installations where quick antenna removal may be needed. All models provide coverage of their specific frequencies without the need for tuning. Wideband, dual-band and 3 dB gain models are available to satisfy various application requirements.

Features

- Broadband: cover all specified frequencies without tuning
- Magnetic base for quick removal. Ideal for test equipment applications.
- Protective surface prevents scratches on the vehicle’s surface
- Patented Whip Design - special phasing coil achieves in-phase signal transmission and reception using two collinear elements at both frequencies (ASPRDM1994 models)
- Easily upgradable - for customers already owning an ASPDM1994 (unity/3 dB gain) antenna, a replacement whip KRDM1994Z is available for a quick upgrade to an ASPRDM1994 model
- Building Block - easily upgradable to 3 dB antenna by installing KD1894Z whip on base (Models ASP1890T and ASP1890S)

Antenna Electrical Specifications

Model	Frequency Range	Gain
ASPA1894B	806-869 MHz	3 dB
ASPRDM1994M	824-894/1850-1990 MHz	3 dB/3 dB
ASPRDM1994S	824-894/1850-1990 MHz	3 dB/3 dB
ASPRDM1994T	824-894/1850-1990 MHz	3 dB/3 dB
ASPRDM1994U	824-894/1850-1990 MHz	3 dB/3 dB
ASPRDM1994PC	824-894/1850-1990 MHz	3 dB/3 dB
MDBM800/1900	824-896/1850-1990 MHz	2 dBi/2 dBi
MDBM824/1850	824-896/1850-1990 MHz	2 dBi/4 dBi

Technical Data

Maximum Power: 10 watts
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: 2.0 across the band (ASPRDM models and MDBM800/1900) <1.9:1 (ASPA1894B) <1.5:1 across each band (MDBM824/1850)
Radiator Material: Stainless steel, black chrome plated
Antenna Base: Molded high strength plastic
Mounting Base: Black coated stainless steel
Boot: Rubber
Mounting Force: 105.8 ounces minimum (MDBM800/1900) 300 ounces minimum (MDBM824/1850)
Cable: See Mechanical Specifications
Connector Options: Male SMA (MSMA), Male TNC (MTNC) Mini-UHF (PL), SMB (SMB), Female FME (FFME)
Mount Method: Magnetic

For detailed specifications, visit <http://antenna.pctel.com>.

Mechanical Specifications

Model	Connector	Antenna Height	Coax Cable
ASPA1894B	BNC male	Approximately 14”	12 ft RG-58/U
ASPRDM1994M	Mini-UHF male	14.1”	15 ft PRO-FLEX™ PLUS
ASPRDM1994S	SMA male	14.1”	15 ft PRO-FLEX™ PLUS
ASPRDM1994T	TNC male	14.1”	15 ft PRO-FLEX™ PLUS
ASPRDM1994U	SAP	14.1”	15 ft PRO-FLEX™ PLUS
ASPRDM1994PC	SAP with Mini-UHF and TNC adapter	14.1”	15 ft PRO-FLEX™ PLUS
MDBM800/1900	See Connector Options	14.37”	13’ RG-58/U
MDBM824/1850	See Connector Options	10.5”	14’ RG-58/U