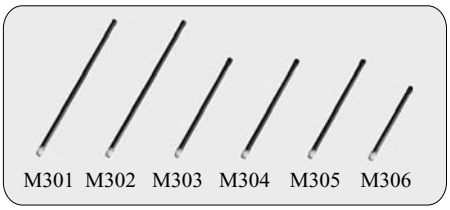
Antenna

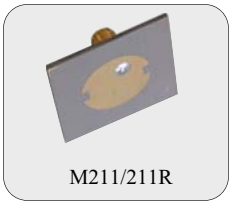
■ Dipole antenna



Model	Freq.range	Antenna gain	VSWR	Dimensions	Weight
M301/401	0.8 to 1GHz	＞1dBi	＜1.5	7.5φ ×250mm	approx.20g
M302/402	1.25 to 1.65GHz	＞1dBi	＜1.5	7.5φ ×250mm	approx.20g
M303/403	1.7 to 2.2GHz	＞1dBi	＜1.5	7.5φ ×180mm	approx.15g
M304/404	2.25 to 2.65GHz	＞1dBi	＜1.5	7.5φ ×180mm	approx.15g
M305/405	300 to 500MHz	＞1dBi	＜1.5	8.0φ ×195mm	approx.30g
M306/406	4.7 to 6.2GHz	＞1dBi	＜1.5	7.5φ ×120mm	approx.10g

1） Antenna gain and VSWR are specified at a center of frequency range.
2） Connector : SMA(P) @ M300 series, N(P) @ M400 series
3） Dimensions and weight are applied only to M300 series.

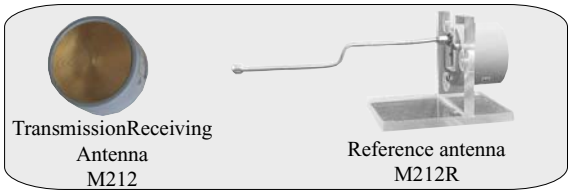
■ Patch antenna



This is a right circular polarization antenna used in the ETC/DSRC.
There are two types of the Reference antenna (M211R) and the Transmission Receiving antenna (M211).
The antenna gain and VSWR data are attached only to the Reference antenna.

Freq.range	Antenna gain	VSWR	Axial ratio	Dimensions	Connector
5820±35MHz	＞6dBi	＜2.0	＜3dB	30×30mm	SMA(J)

■ Spiral antenna



This is an ultra wide band and right circular polarization antenna. There are two types of the Reference antenna (M212R) and the TransmissionReceiving antenna (M212).
The Reference antenna is mounted on the acrylic resin stand, and the antenna gain & VSWR data and the semi-rigid cable are attached to it.

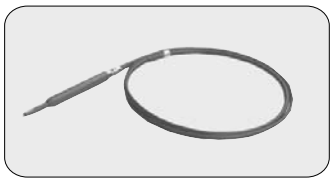
Freq.range	Antenna gain	VSWR	Dimensions	Connector
2 to 18GHz	0dBi typ	＜2.5	61.2φ×31mm	SMA(J)

■ Log periodic antenna

This is a wide band and linear polarization antenna.
There are two types of the Reference antenna (M213R) and the Transmission Receiving antenna (M213).
The antenna gain and VSWR data are attached only to the Reference antenna.

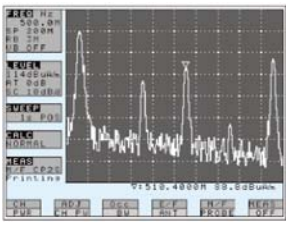
Freq.range	Antenna gain	VSWR	Dimensions	Weight	Connector
0.75 to 2GHz	6.5dB typ @ 1.6GHz	＜2.5	195(W)×256(L)mm	900g	BNC(J)

Magnetic field probe [CP-2S]

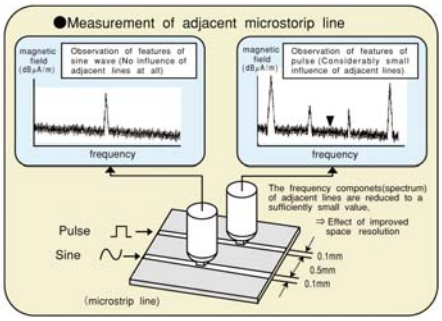


By connecting this probe to the spectrum analyzer for EMI MSA338E, the magnetic field distribution on a print circuit board can be precisely measured.
As the magnetic field detection portion of CP-2S is of a shielded loop structure that adopts glass ceramic multi-layer board technology of excellent high frequency characteristics, it is possible to measure at high reproducibility by detecting magnetic field components only. The measuring frequency range is as broad as 10MHz to 3GHz, and the measured value is calibrated in MSA338E.

Item	Specifications
Frequency range	10MHz to 3GHz
Space resolution	approx.0.25mm (depending on objects)
Dimensions	outside : 12φ×135mm probe tip : 2mm(W)×1mm(T)
Connector	SMA(P)



Moreover, CP-2S is not affected by adjacent patterns because of high space resolution.



※ When observing the spectrum on PC screen, PC software MAS300 (option) is necessary separately.