

UWB Antenna

Type: WXA-S1FL

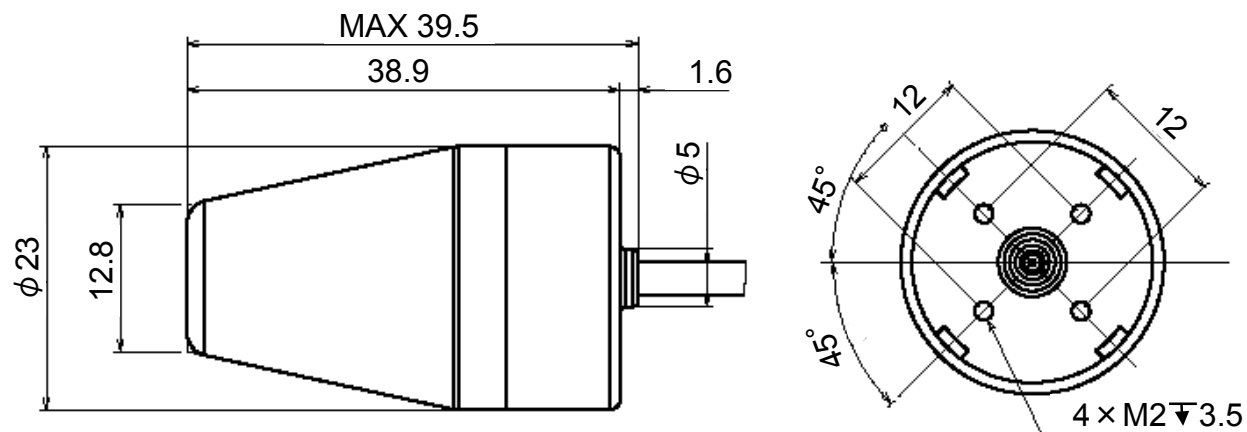
Technical Data & Application Note Ver.1

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1. Dimension

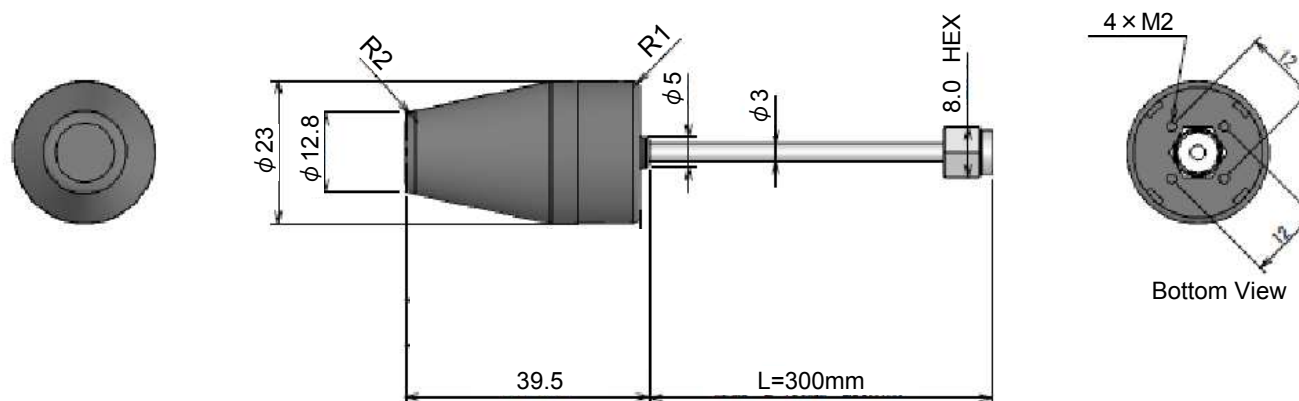
• Dimension (in mm)

Antenna



Bottom View

Antenna with Semi-Flexible Cable and SMA/P Connector



Bottom View

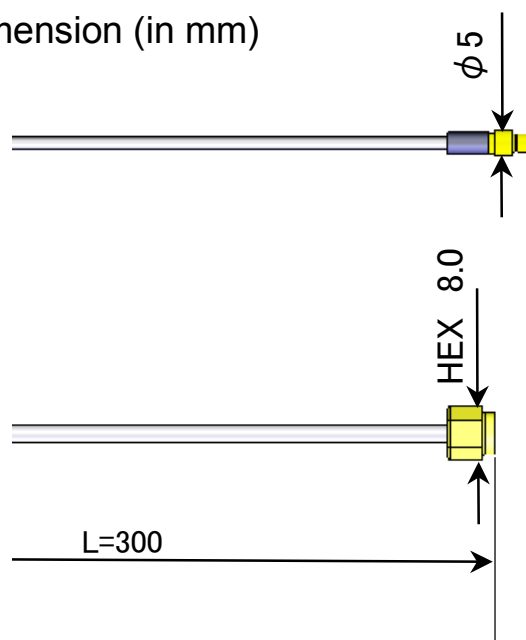
NOTE. TOLERANCE ± 0.3 mm

2. Power feeding to Antenna

▪ Cable and Connector Options

Item	Value
Connector type	SMA/P or MMCX/P
Cable_Length	300mm (Option : 100mm ~ 500mm)
Cable_type	Semi-Flexible Cable (Option : Flexible Cable)
Input impedance	50 Ω

▪ Dimension (in mm)

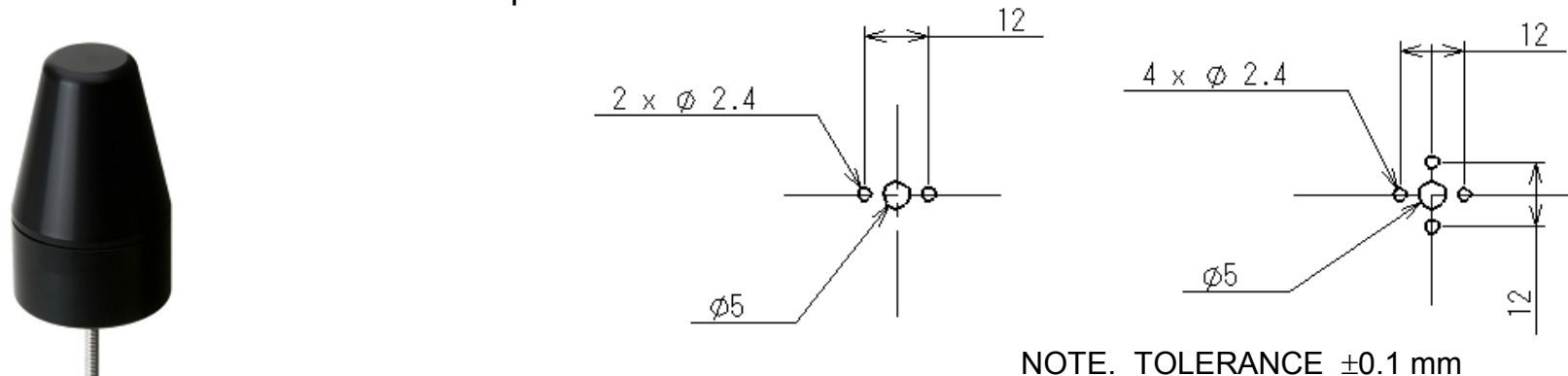


Connect the best suited connector.

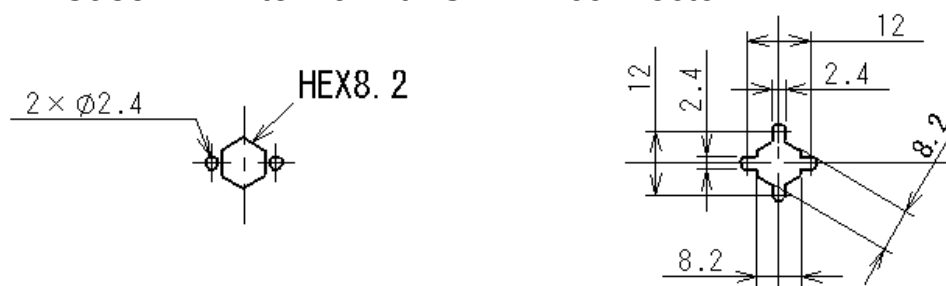
3. Mounting on Plate(or Box)

- Dimension of holes on plate (in mm)

Example Case 1. Antenna with MMCX/P connector



Case 2. Antenna with SMA/P connector



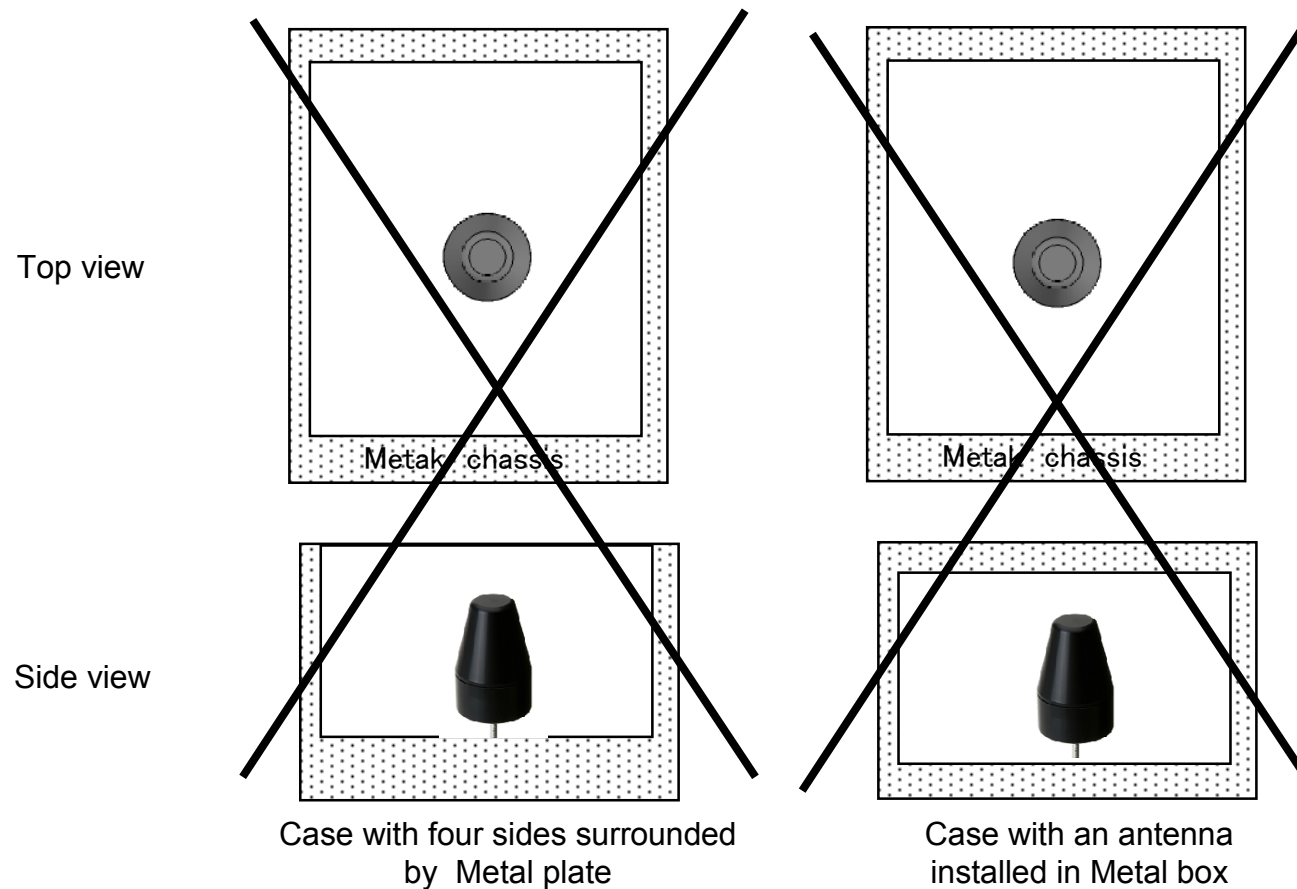
4. Conditions of ANTENNA Placement

• Conditions

Notes:

Don't place an antenna inside a metal chassis as shown below as antenna performance will deteriorate.

Please contact us Omron representative for additional help in placing Antenna.



5. VSWR Measured Data

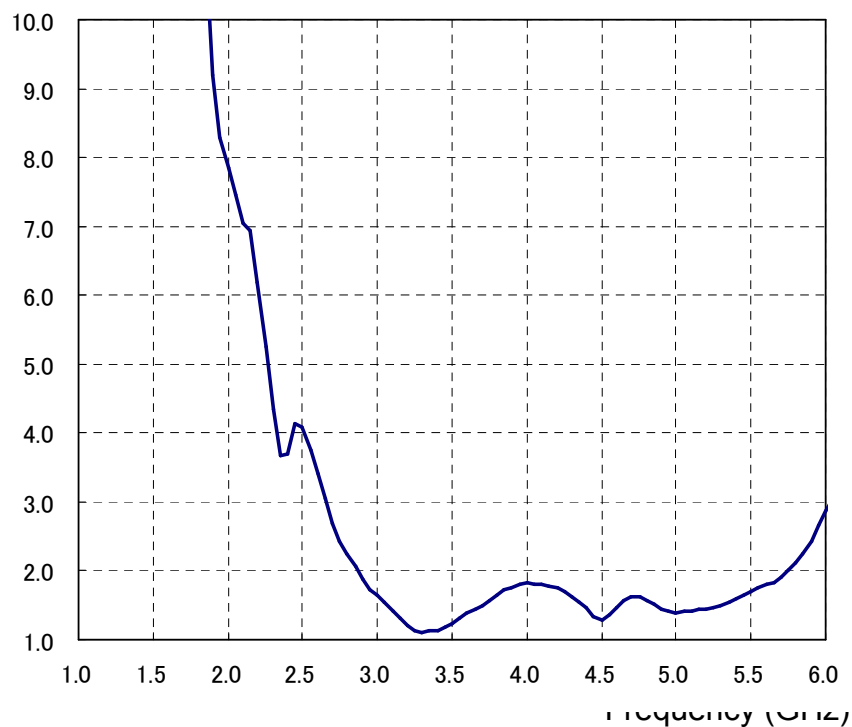
•Electrical Characteristics

Item	Value
Range of frequency (GHz)	3.1 to 4.9
VSWR	3.0 (Max)
Input impedance (Ω)	50

•Radiation Characteristics

Item	Value
Range of frequency (GHz)	3.1 to 4.9
Gain(dBi)	0.0 (Max)
Polarization	Linear
	Vertical - 360° omni-directional
Gain Flatness	3dB

•VSWR



6. Radiation pattern Measured Data

