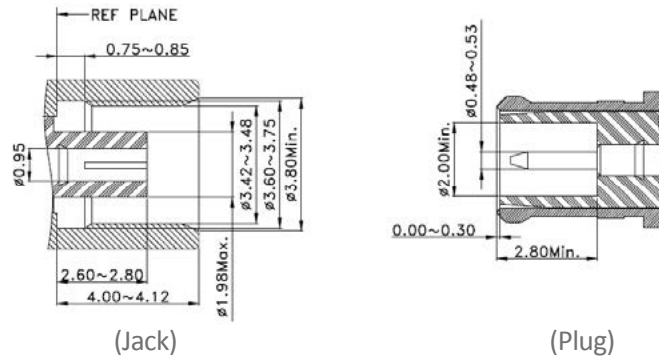


► Introduction

Gigalane **MCX Connectors** are intended for use with microwave application requiring excellent performance up to 6 GHz in 50 Ohm impedance. MCX connectors are similar in design to SMB connectors but smaller than SMB connectors. Typical applications for MCX connectors include GPS, wireless communication and automobiles.

► Interface Standards (CECC22220)

Unit : mm



► Specification

Electrical

Frequency	DC to 6 GHz
Impedance	50 Ω
VSWR	1.2:1 @ 3 GHz, 1.43:1 @ 6 GHz
Insulation Resistance	1000 MΩ
Dielectric Withstand Voltage	750 Vrms max.
Contact Resistance - Outer Conductor - Inner Conductor	2.5mmΩ max. 5mmΩ max.
RF Leakage	> 60 dB @ 1 GHz

Mechanical

Mating Cycle (Durability)	500
Engagement and Separation Force	Engagement : 6.4 kgf max. (63 N max.) Separation : 0.8 kgf to 2 kgf (8 N to 20 N)
Contact Captivation	1.0 kgf (10 N) axial

Environmental

Temperature	- 55°C to + 155°C
Thermal Shock	CECC22220 4.6.7
Corrosion (Salt Spray)	CECC22220 4.6.10
Vibration	CECC22220 4.6.3
Moisture Resistance	CECC22220 4.6.6

Materials

Body	Brass / Becu	Gold Plated
Center Contact	Brass / Becu	Gold Plated
Insulator	PTFE	-

*Note : These characteristics are typical but may not apply to all connectors.

MCX Connectors

▶ JACK (Female)

Unit : mm [Inch]

<p style="text-align: center;">PCB Mount</p> <p>• Part No. PDF-S01-000 (G09SFB001) * PCB Pattern See Fig 5</p>	<p style="text-align: center;">PCB Mount</p> <p>• Part No. PDF-S02-000 (G10SFB002) * PCB Pattern See Fig 5</p>
<p style="text-align: center;">PCB Edge Mount</p> <p>• Part No. PDF-S03-000 (G10SFB003) * PCB Pattern See Fig 8</p>	<p style="text-align: center;">Panel Mount(2 HOLE 16 mm LONG)</p> <p>• Part No. PDF-S04-000 (G10RFB001) * PCB Pattern See Fig 9</p>
<p style="text-align: center;">Right Angle PCB Mount</p> <p>• Part No. PDF-R00-000 (G09RFB001) * PCB Pattern See Fig 8</p>	<p style="text-align: center;">Right Angle PCB Mount</p> <p>• Part No. PDF-R01-000 (G09RFB007) * PCB Pattern See Fig 7</p>

▶ Plug (Male)

Unit : mm [Inch]

PCB Mount	
	<p>• Part No. PDM-S01-000 (G09SMB001) * PCB Pattern See Fig 5</p>

MCX Connectors for Cable Assemblies

▶ For Semi-Rigid & Semi-Flexible Cable Assemblies

Unit : mm [Inch]

Straight PLUG		Right Angle PLUG	
<p>• Cable 047 085</p>	<p>• Part No. DMS04 (G09SMC003) DMS01 (G09SMC001)</p>	<p>• Cable 047 085</p>	<p>• Part No. G09RMC019 DMR07 (G09RMC006)</p>

▶ For Flexible Cable Assemblies

Unit : mm [Inch]

Straight PLUG		Right Angle PLUG	
<p>• Cable RG178 RG316</p>	<p>• Part No. DMS05 (G09SMC004) DMS02 (G09SMC002)</p>	<p>• Cable RG178 RG316</p>	<p>• Part No. DMR04 (G09RMC004) DMR02 (G09RMC002)</p>