

MG210 series

Micro/Multi-Ganged 2ports, DC to 10GHz, coaxial interconnection

February 2021



Overview



RoHS compliance

REACH compliance

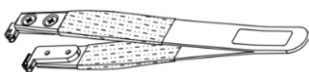
Halogen Free

Accessories

<Test cable for receptacle>



<Mate-unmate jig>



MG210 has low-loss, low EMI leakage traits with micro/multi-ganged coaxial interconnection. Coaxial lines are combined in a connector with 50 ohm matched thoroughly. Slide-mating interface secures anti-rotation and stability vs. vibration. Main applications are CPE, Femtocell, Laptop, M.2 Card IF signal transmission.

| Features

- Space Efficiency : minimize footprint size by 2 ganged connector
- Power Efficiency : Low loss coaxial cable ($DK < 2.0$)
- Mechanically Stable : Strong resistance to X-Y-Z moving and vibration
- Minimized Cross Talk : Each contact is electrically/mechanically separated
- Minimized RF Interference : Full - enclosed mating by ground shell



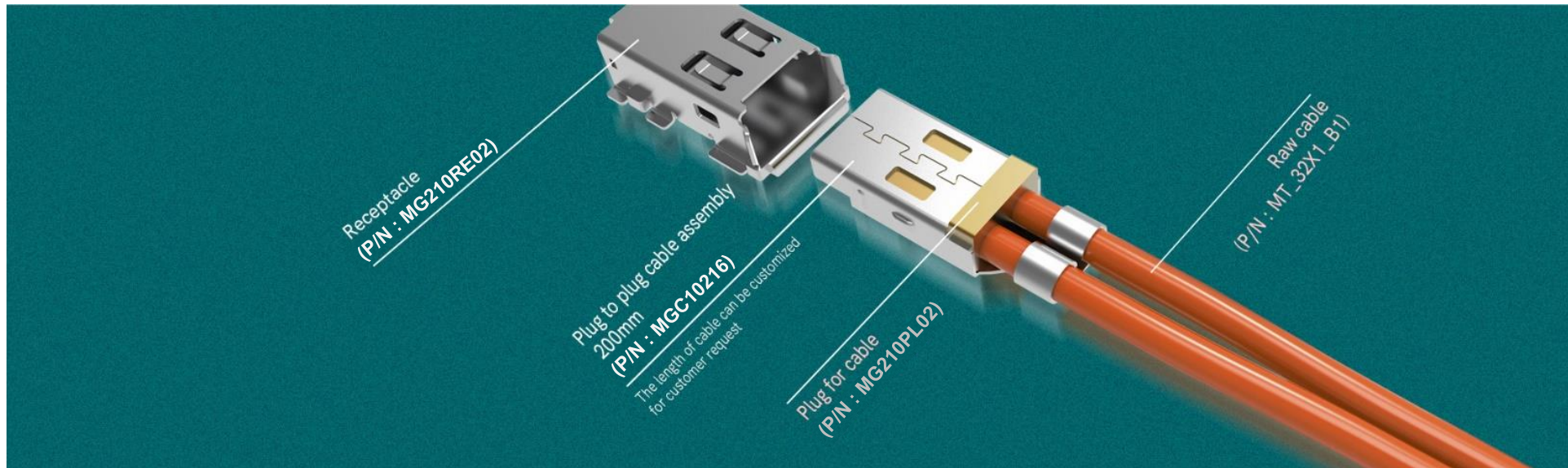
| Specifications

- 2 cables in a single interface
- Insertion loss : -1.7dB (@10GHz) _ Mated condition (Plug cable assembly + Receptacles both ends)
- VSWR : Max 1.5 (@10GHz)
- Height : Max 2.0mm
- Receptacle footprint : $3.7 \times 5.9\text{mm}$
- Frequency : DC to 10GHz
- Minimum bend radius of cable : 4mm

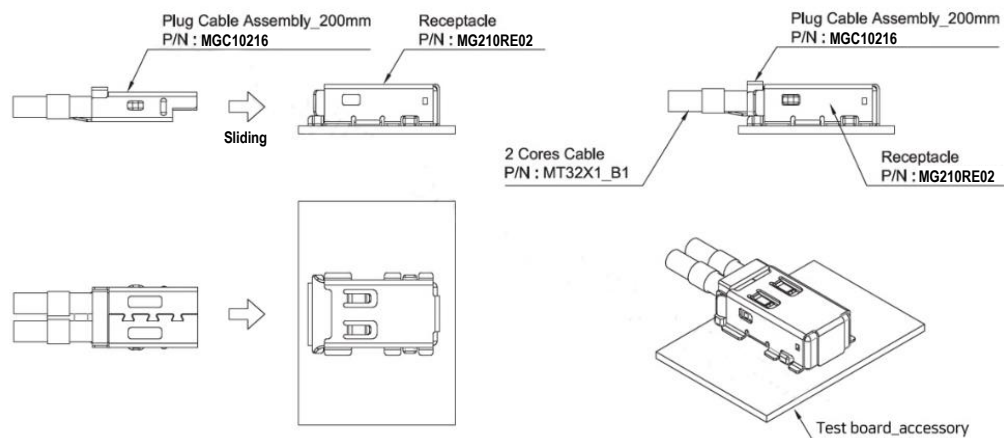
| Part number

- Plug cable assembly(200mm) : MGC10216 *Customized length available
- Receptacle : MG210RE02
- Test cable(MG210 Plug to 2 Female SMAs/140mm) : TRA2PA5
- Test cable(MG210 Plug to 2 Male SMAs/170mm) : TRA2PA6
- Mate-unmate jig : GJSZZA1

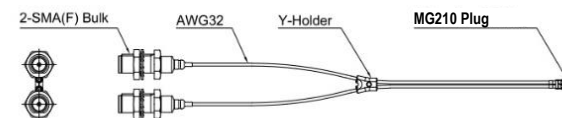
Structure



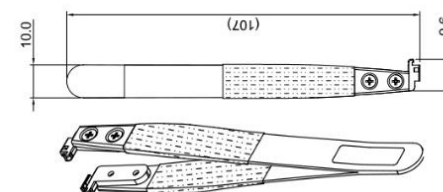
MG10216 Mated into MG210RE02



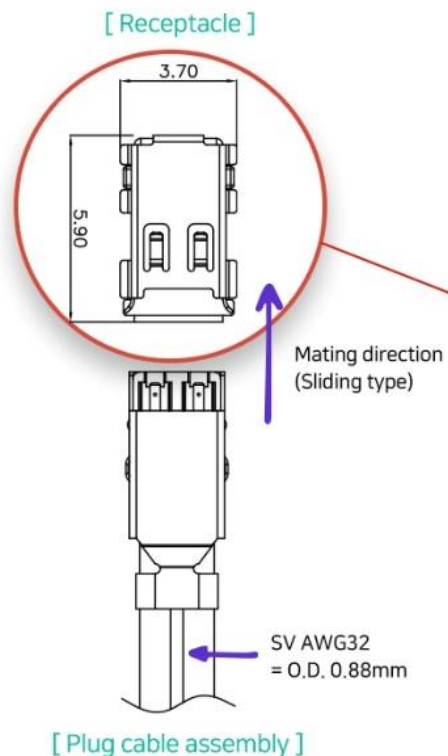
Test accessory _ Plug to Female SMA's 170mm (P/N : TRA2PA5)



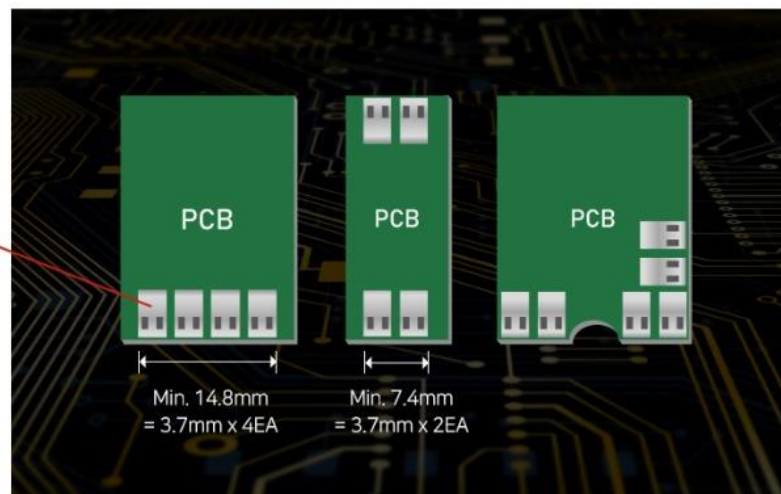
Tweezer for mating and unmating a plug (P/N : GJSZA1)



MG210 in a module



Example _ Antenna modules



Package

MG210RE01 (Receptacle)



[IN A REEL]



MG210Z02 (Plug cable assembly)



[ON A TRAY]

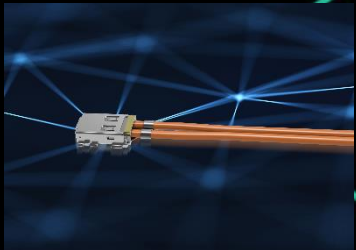
Specification of MG210

- Insertion loss (plug to plug cable assembly + Receptacles both ends)
 - Cable 100mm : < -1.1dB (@10GHz)
 - Cable 200mm : < -1.7dB (@10GHz)
- Crosstalk(NEXT)
 - Max -40dB(DC to 10GHz) / Typical -45dB



Thank You

Your trusted partner for 5G and beyond-5G



Micro IF Interconnection



Low-loss microwave cable



High shielding chamber



mmWave Patch Antenna



mmWave Horn Antenna