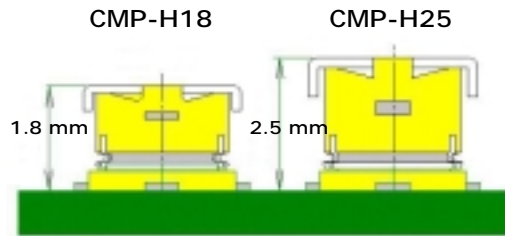


Coaxial Micro-Plugs(CMP) up to 7 GHz

The GigaLane *Coaxial Micro-Plugs and Receptacles* (Equivalent to HRS U.FL and Murata GSC) are perfectly designed for Circuit Boards for SMT and for Vertical Mounting on RF Boards. They have excellent electrical performance on the right angle transitions **up to 7 GHz**.



Mated Height of Coaxial Micro-Plugs

Features

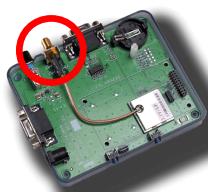
- Fully compatible with MuRata GSC series and Hirose U.FL/U.FL(V) series.
- DC to 7 GHz (VSWR < 1.3).
- Cable assembly of 0.8mm, 1.13mm, and 1.3mm coaxial cables.
- Mated heights of 1.8 mm and 2.4 mm
- Vertical mounting on receptacle (SMT).
- Excellent electrical performance on the right angle transitions.

Applications

- Mobile phones
- GPS, GPRS, Bluetooth, PCI, Wireless LAN, AP
- Measurement instruments and test systems



Mobile Phones



GPS



Bluetooth



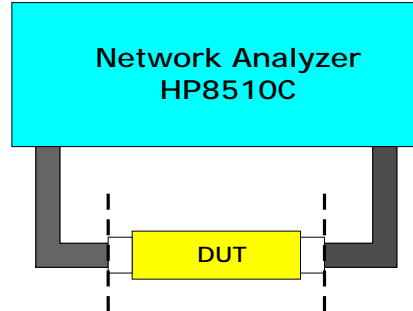
PCI

Coaxial Micro-Plugs(CMP) up to 7 GHz

Performance

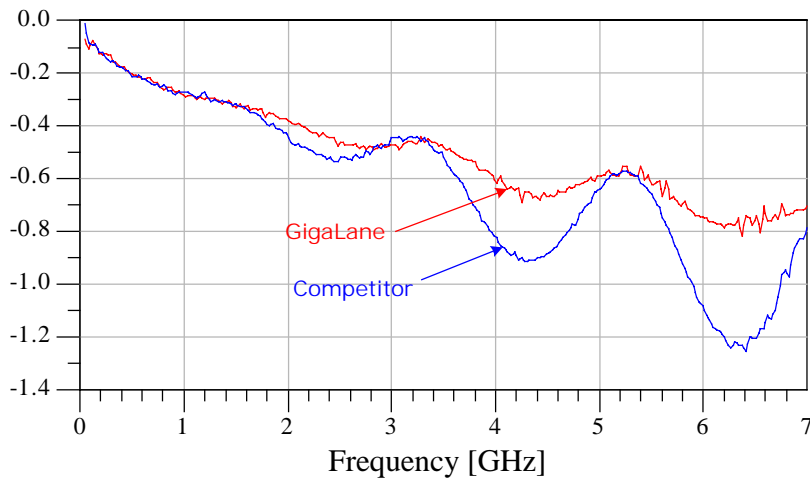


Test DUT

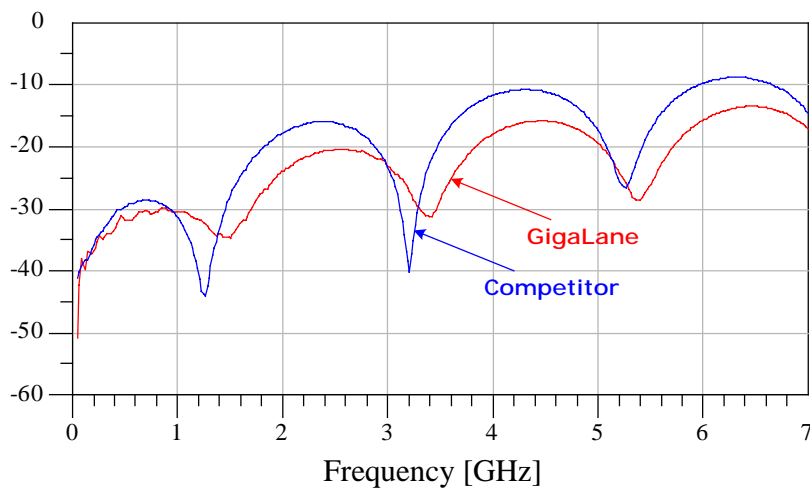


- Frequency : 1 ~ 7 GHz
- Test Equipment : HP8510C
- Test Configuration : 3.5mm full 2-port calibration
- Cable Length : 100 mm

Insertion Loss



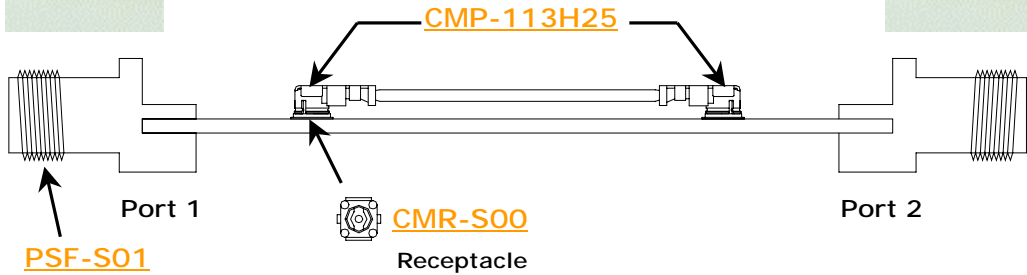
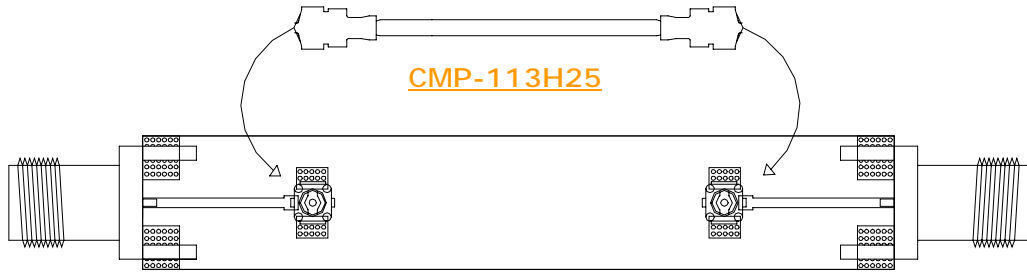
Return Loss



Coaxial Micro-Plugs(CMP) up to 7 GHz

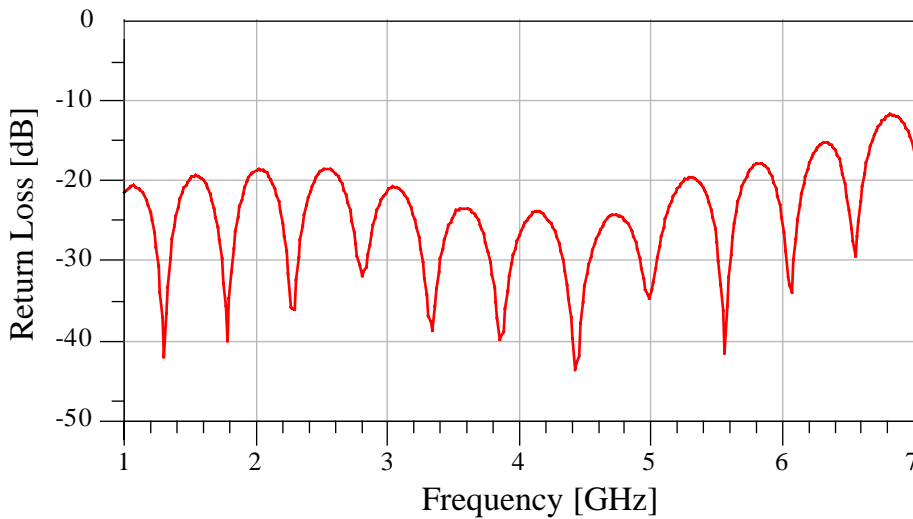
Performance

Test Configuration



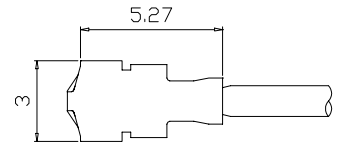
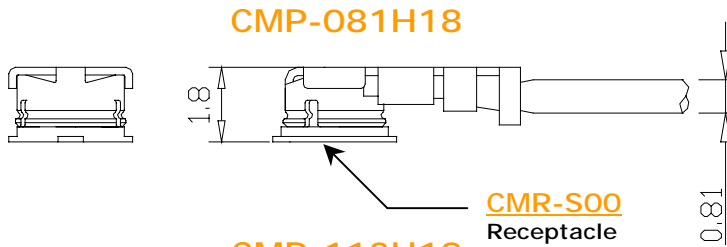
PSF-S01
 GigaLane's High Performance SMA

Return Loss

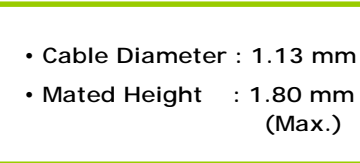
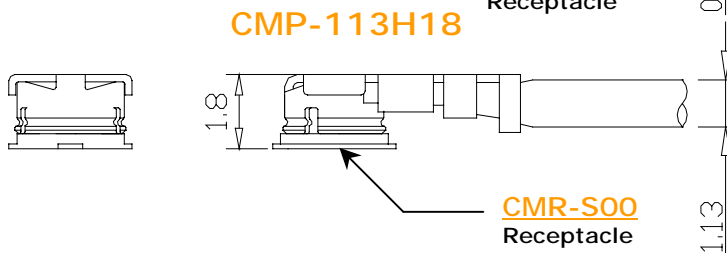


Coaxial Micro-Plugs(CMP) up to 7 GHz

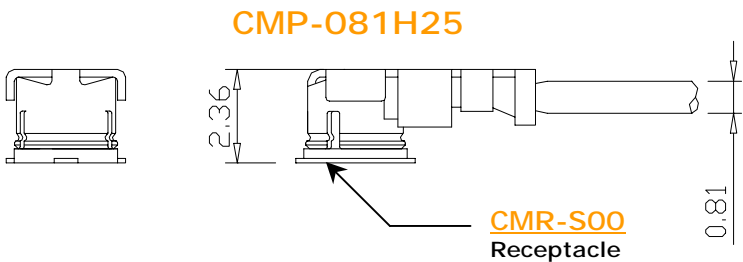
Mated CMP Connector



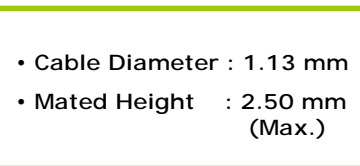
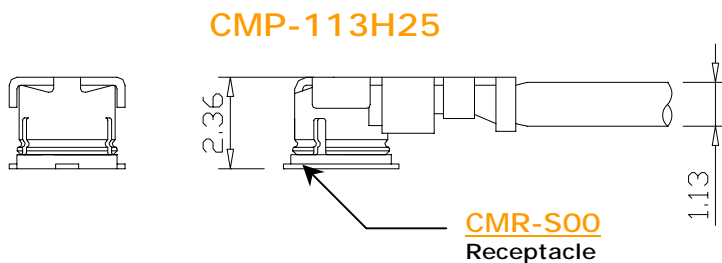
- Cable Diameter : 0.81 mm
- Mated Height : 1.80 mm (Max.)



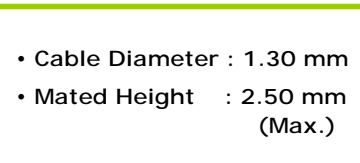
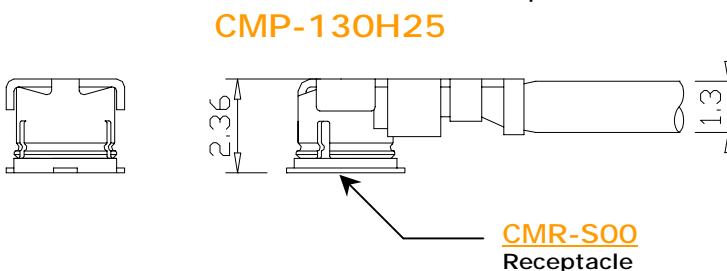
- Cable Diameter : 1.13 mm
- Mated Height : 1.80 mm (Max.)



- Cable Diameter : 0.81 mm
- Mated Height : 2.50 mm (Max.)



- Cable Diameter : 1.13 mm
- Mated Height : 2.50 mm (Max.)



- Cable Diameter : 1.30 mm
- Mated Height : 2.50 mm (Max.)

Product Specifications

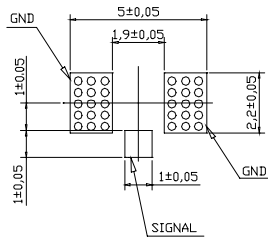
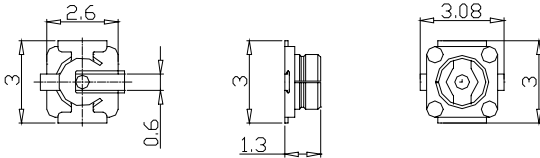
No.	Item	Specifications	Conditions
1	<i>Impedance</i>	50 ohm \pm 1	TDR Measurement
2	<i>Insulation Resistance</i>	500 M Ohms min.	100V DC
3	<i>VSWR</i>	CMP single side	1.2 Max. up to 7 GHz
		CMJ single side	1.2 Max. up to 7 GHz
		CMP + CMJ(Receptacle) single side	1.3 Max. up to 7 GHz
4	<i>Center Contact Holding Force</i>	0.2 N min.	Measured by a 0.5mm pin gauge
5	<i>Durability</i>	Contact Resistance Center : 20 m Ohms max. Outside : 10 m Ohms max.	50 cycle
6	<i>Humidity (Steady State)</i>	No damage, cracks or parts dislocation. <ul style="list-style-type: none"> Insulation resistance 100M Ohms min. (when high humidity) Insulation resistance 500M Ohms min. (when dry) 	96 hours at temperature of 40 °C and humidity of 95%

Material & Finish

Parts	Components	Materials	Finish
<i>Plug</i>	shell	phosphor bronze	silver Plated
	insulator	PBT	Black
	center contact	phosphor bronze	gold plated
<i>Receptacle</i>	shell	phosphor bronze	silver plated
	insulator	LCP	beige
	center contact	brass	gold plated

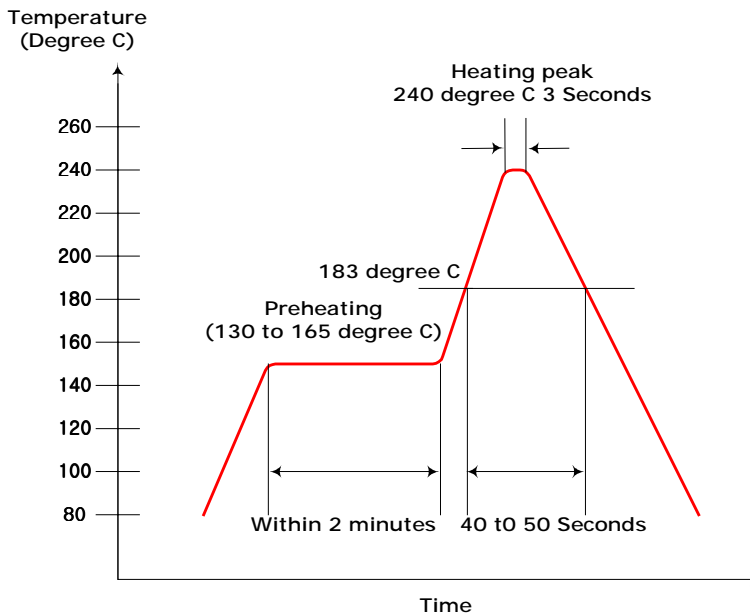
Receptacles

Part No. CMJ-S00



Recommended PCB Pattern

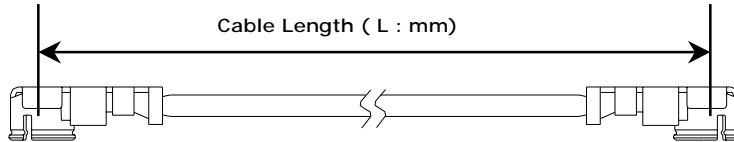
Recommended Temperature Profile



- ** 1) The temperature profile above is for mounting the receptacles (Part No. CMJ-S00) on Printed Circuit Board.
- 2) This profile is subject to change according to different conditions.
- 3) The maximum temperature does not exceed 240 degree C.
- 4) The recommended maximum temperature for manual soldering is 350 degree C for 5 seconds.

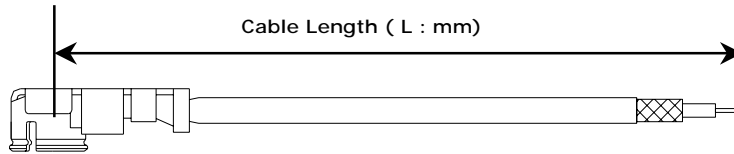
Cable Assembly Specifications

• Mating CMP Double-Ended Cable Assembly



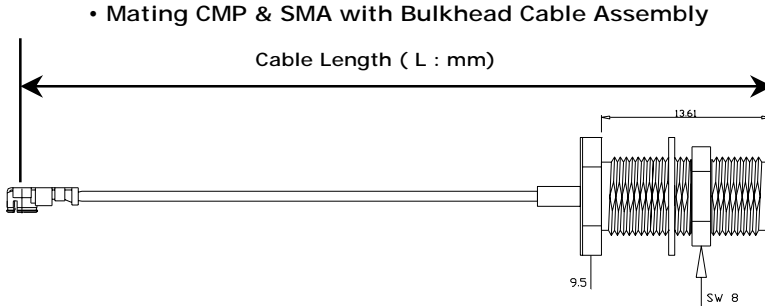
- CMP-081H18-CMP-L(mm)
- CMP-081H25-CMP-L(mm)
- CMP-113H18-CMP-L(mm)
- CMP-113H25-CMP-L(mm)
- CMP-130H25-CMP-L(mm)

• Mating CMP Single-Ended Cable Assembly



- CMP-081H18-L(mm)
- CMP-081H25-L(mm)
- CMP-113H18-L(mm)
- CMP-113H25-L(mm)
- CMP-130H25-L(mm)

• Mating CMP & SMA with Bulkhead Cable Assembly



- CMP-081H18-SFS(BH)-L(mm)
- CMP-081H25-SFS(BH)-L(mm)
- CMP-113H18-SFS(BH)-L(mm)
- CMP-113H25-SFS(BH)-L(mm)
- CMP-130H25-SFS(BH)-L(mm)

Part No. & Ordering Information

Ex) **CMP-W081H18-CMP-150mm**

<p>1. Series Name CM : Coaxial Micro</p>	<p>3. Cable Color W: White G: Gray</p>	<p>4. Cable Type 081 : Dia. 0.81 mm Cable 113 : Dia. 1.13 mm Cable 130 : Dia. 1.30 mm Cable</p>	<p>5. Mating Height H18 : 1.8 mm H25 : 2.5 mm</p>	<p>6. Cable Length</p>
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Tolerance of Cable Assembly

Total Length(mm)	Tolerance(mm)
35 ≤ L ≤ 200	± 4
200 ≤ L ≤ 500	± 8
500 ≤ L ≤ 1000	± 12
1000 <	± 1.5 %

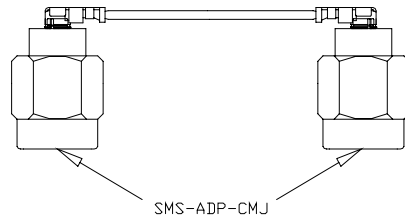
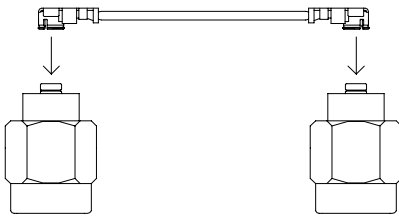
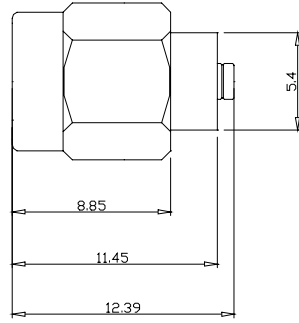
Conversion Adapter

SMA Conversion Adapter

(Part No. SMS-ADP-CMJ)



SMA (Plug) - CMJ(Jack)



Reliable Condition

** Do not apply an excessive load to the cable after the connectors are mated. Please refer to the permissible load below.

