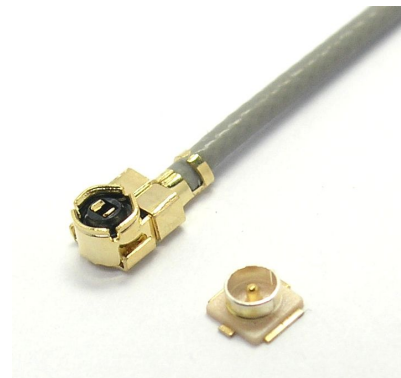
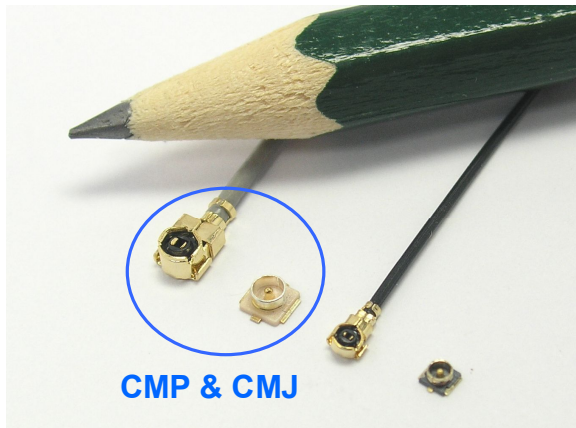


Coaxial Micro-Plugs and Receptacles

The GigaLane's **Coaxial Micro-Plugs (CMP)** and **Receptacles (CMJ)** are specially designed for Space Reduction on Circuit Boards and for Vertical Mounting on RF Boards. They have the excellent RF performance on the right angle transitions **up to 6 GHz**.



Features

- Fully compatible with Hirose U.FL and I-PEX MHF- II series
- DC to 6 GHz (VSWR <1.3)
- Cable assembly of 0.70mm, 0.81mm, 1.13mm, 1.30mm and Semi Flexible cables
- Mated heights of 1.80 mm and 2.50 mm
- Vertical mounting on receptacle (SMT)

Applications

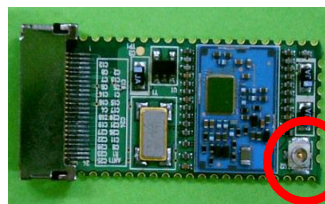
- Navigation, DMB, PDA, Notebook PC, GPS, Wireless LAN , Bluetooth
- GSM, GPRS & CDMA mobile Phones
- Measurement instruments and test systems



Mobile Phone



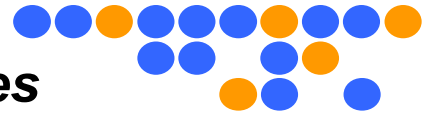
GPS



Bluetooth

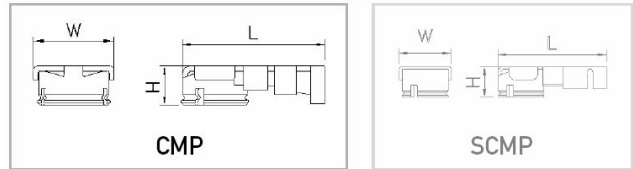
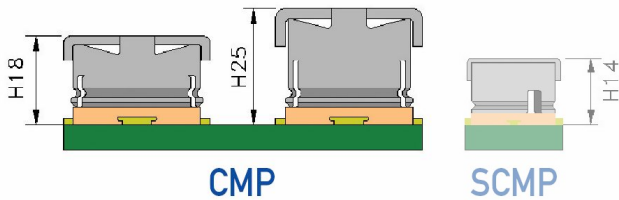


PCI



Coaxial Micro-Plugs and Receptacles

Mated Height & Dimensions



	H	W	L
H25	2.0 ± 0.2	3.0 ± 0.2	5.7 ± 0.3
H18	1.4 ± 0.2	3.0 ± 0.2	5.3 ± 0.3
H14	1.2 ± 0.2	2.0 ± 0.2	4.0 ± 0.3

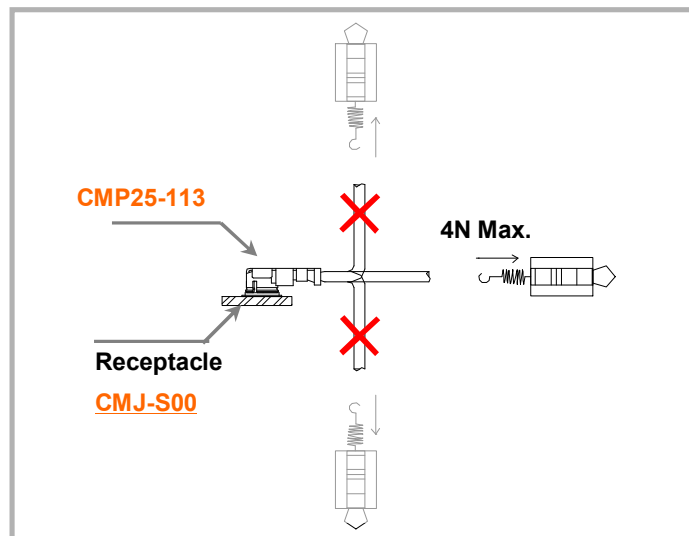
CMP Cable Assembly

Plug Type	Plug mated Height	Cable Type (Dia.)					
		0.70mm	0.81mm	1.13mm	1.30mm	*1.32mm	1.37mm
CMP	2.5mm		○	○	○	○	○
CMP	1.8mm		○	○			
SCMP	1.4mm	○	○				
Cable Color		Black	Black White	Black Gray	Gray	Gray	Black

* 1.32mm : 1.30mm Double Shield type

Plugs Caution

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





Coaxial Micro-Plugs and Receptacles

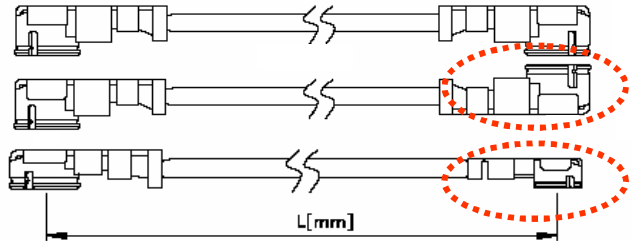
Part No. & Ordering Information

Double-Ended Cable Assembly

Case 1) Normal Type

Case 2) Reverse Type

Case 3) Different Connector



CMP25(G)-G113-CMP25(G)-150mm(R)

① ② ③ ④ ① ② ⑤ ⑥

① : Plug Type

- CMP / SCMP

② : Plug Height

- 25(G) : 2.5mm (CMP only)
- 18(G) : 1.8mm (CMP only)
- 14(G) : 1.4mm (SCMP only)

③ : Cable Color

- W : White
- G : Gray
- B : Black

④ : Cable Select

- 070 (Dia : 0.70 mm)
- 081 (Dia : 0.81 mm)
- 113 (Dia : 1.13 mm)
- 130 (Dia : 1.30 mm)
- 130(D) (Dia : 1.32 mm)
- 137 (Dia : 1.37 mm)

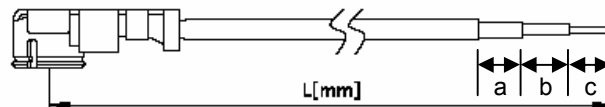
⑤ : Cable Length

- Customized
- **Min. Length : 30mm**

⑥ : Connector Direction

- R : Reverse

Single-Ended Cable Assembly



CMP25(G)-G113-150mm(a/b/c)

① ② ③ ④ ⑤ ⑥

① : Plug Type

- CMP

② : Plug Height

- 25(G) : 2.5mm (CMP only)
- 18(G) : 1.8mm (CMP only)

③ : Cable Color

- G : Gray
- B : Black

④ : Cable Select

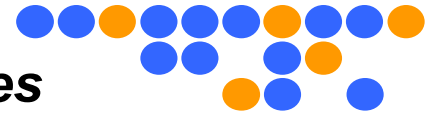
- 113 (Dia : 1.13 mm)
- 130 (Dia : 1.30 mm)
- 130(D) (Dia : 1.32 mm)
- 137 (Dia : 1.37 mm)

⑤ : Cable Length

- Customized
- **Min. Length : 30mm**

⑥ : Strip Condition

- Ground/Insulator/Signal
- Length Unit : mm



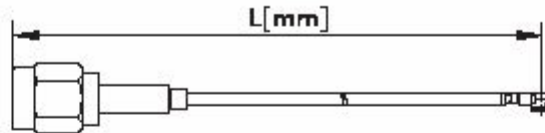
Coaxial Micro-Plugs and Receptacles

Part No. & Ordering Information

EX) **CMP25(G)-G113-XXXXX-120mm**

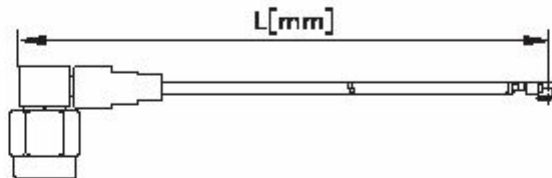
CAMS2, CAMR2, CAFS1, CAFS3, CAFR1, CDFR2, CEMS1.

SMA Plug



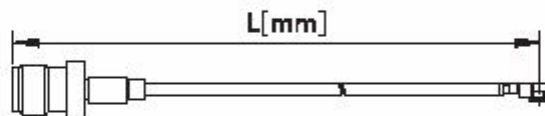
Part No. CAMS2

Right Angle SMA Plug



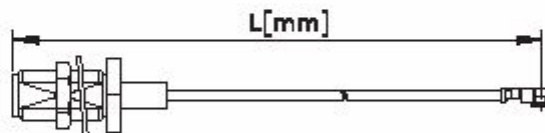
Part No. CAMR2

SMA Jack



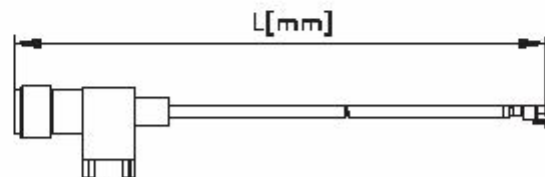
Part No. CAFS1

SMA Bulkhead Jack



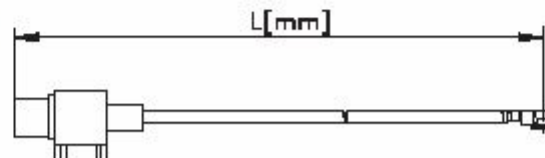
Part No. CAFS3

SMA Right Angle Jack



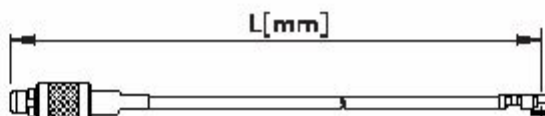
Part No. CAFR1

MCX Right Angle Jack



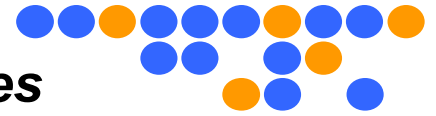
Part No. CDFR2

MMCX Plug



Part No. CEMS1

Coaxial Micro-Plugs and Receptacles

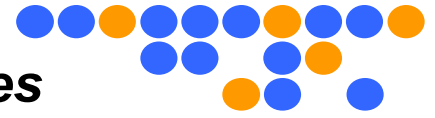


Product Specifications

Item	Specifications	Conditions
Impedance	50 ohm \pm 1	TDR Measurement
Insulation Resistance	500 M Ω min.	100V DC
VSWR	CMP25(G)-G113-CMP25(G)-100mm	1.3 Max. up to 6 GHz
	CMP25(G)-G130-CMP25(G)-100mm	
	CMP25(G)-B137-CMP25(G)-100mm	
	CMP18(G)-W081-CMP18(G)-100mm	
	CMP18(G)-G113-CMP18(G)-100mm	
Unmating Force	2 N min.	Measured by a 0.5mm pin gauge
Durability	Contact Resistance Center : 20 m Ohms max. Outside : 10 m Ohms max.	30 cycle
Humidity (Steady State)	<ul style="list-style-type: none"> ✓No damage, cracks or parts dislocation. ✓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
Plug	body	Phosphor Bronze	gold plated
	insulator	PBT	black color
	center contact	Phosphor Bronze	gold plated
Receptacle	body	Phosphor Bronze	gold plated
	insulator	LCP	beige color
	center contact	Brass	gold plated

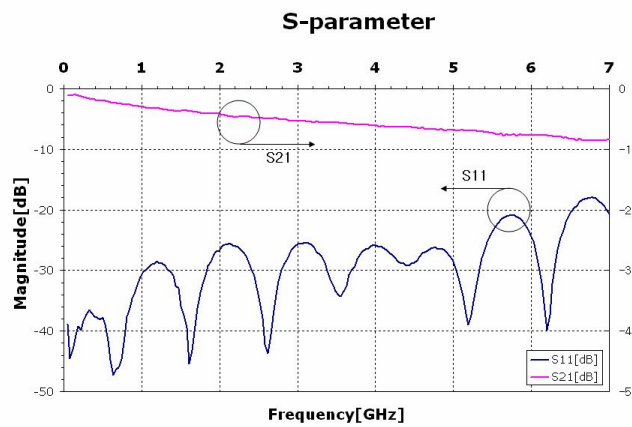


Coaxial Micro-Plugs and Receptacles

Performance - 1



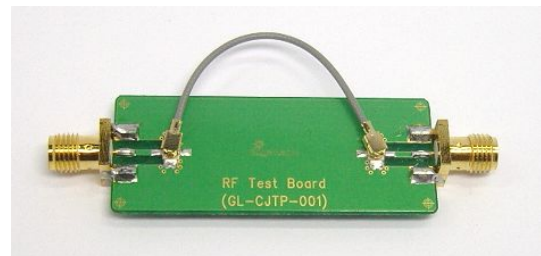
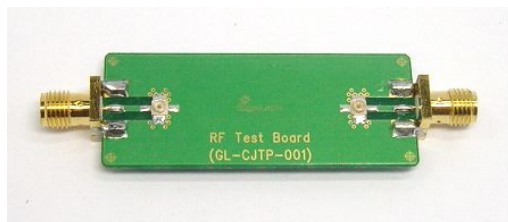
CMP25(G)-G113-CMP25(G)-100mm



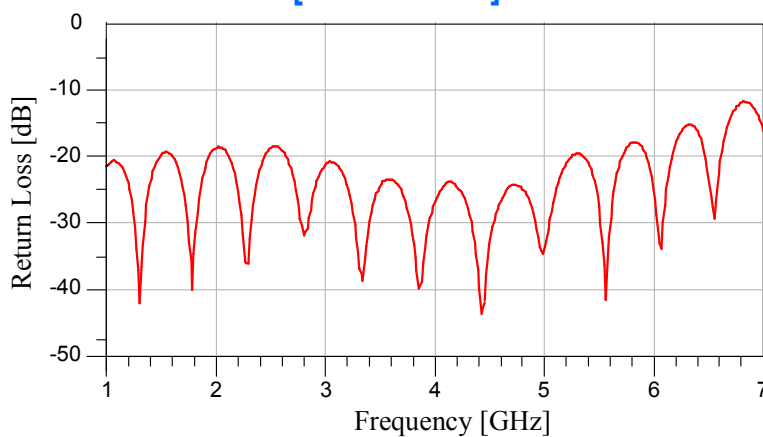
- Frequency : 0.05 ~ 6 GHz
- Test Equipment : HP8510C
- Test Configuration : 3.5mm full 2-port calibration
- Cable Length : 100 mm

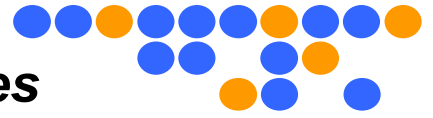
Performance - 2

Test Configuration



[Return Loss]



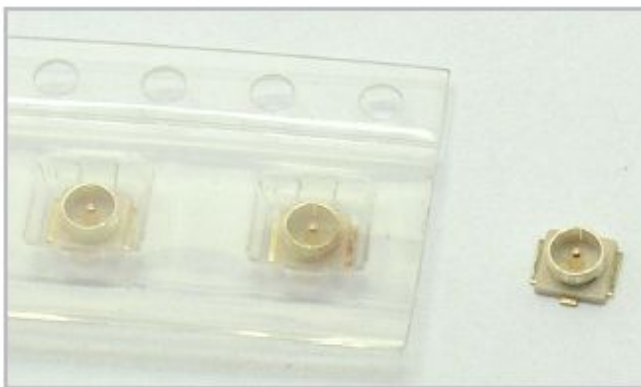


Coaxial Micro-Plugs and Receptacles

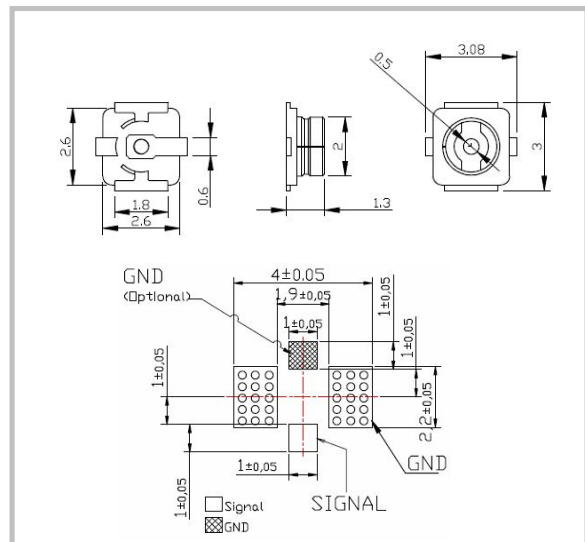
Receptacles: Coaxial Micro Jack (CMJ)

4 Pads Type

Part Number	Reel Packaging
CMJ-S00-001	1000pcs/reel
CMJ-S00-501	5000pcs/reel



Recommended PCB Pattern

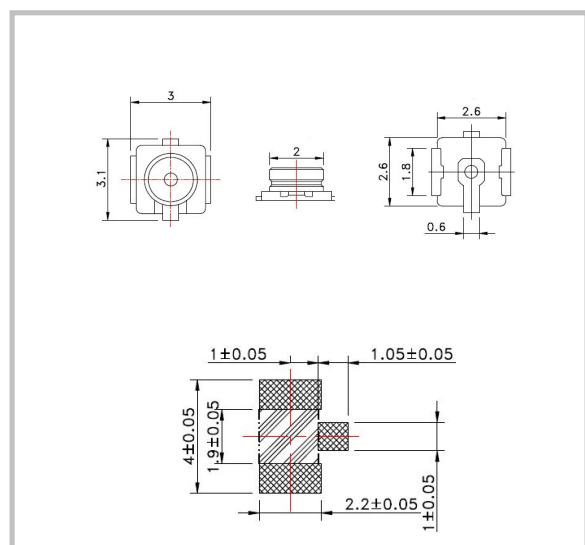


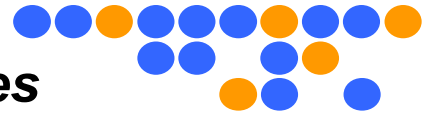
3 Pads Type

Part Number	Reel Packaging
CMJ-S01-001	1000pcs/reel
CMJ-S01-501	5000pcs/reel



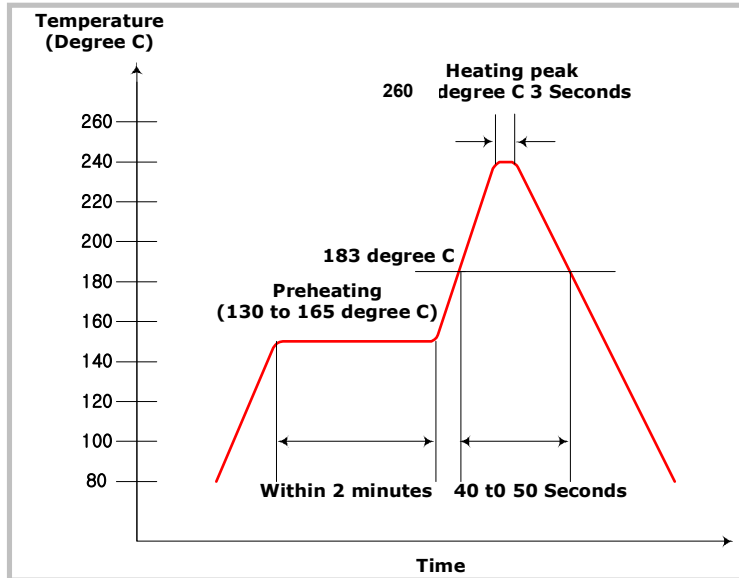
Recommended PCB Pattern





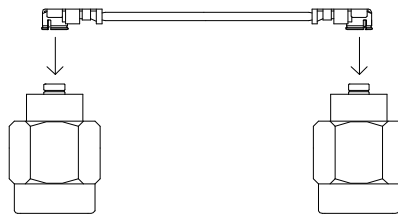
Coaxial Micro-Plugs and Receptacles

Receptacles Caution

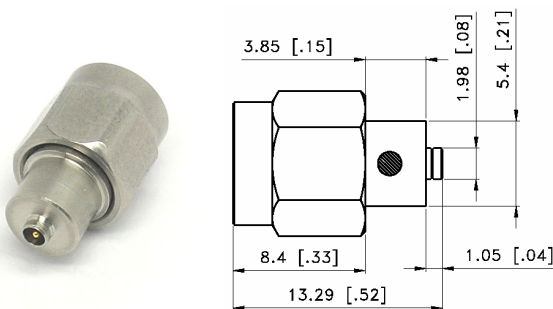


- 1) The temperature profile above is for mounting the receptacles (CMJ) on Printed Circuit Board.
- 2) This profile is subject to change according to different conditions.
- 3) The maximum temperature does not exceed 260 degree C.
- 4) The recommended maximum temperature for manual soldering is 350 degree C for 5 seconds.

Conversion Adapters

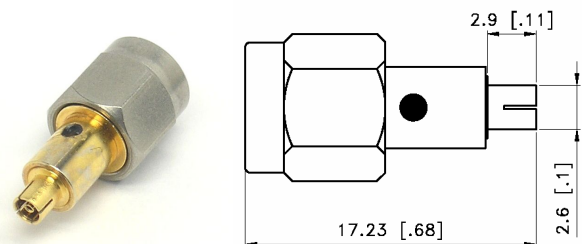


■ SMA(M) to CMJ

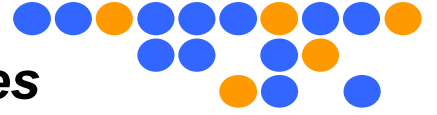


P/N:SMS-ADP-CMJ-01

■ SMA(M) to CMP



P/N:SMS-ADP-CMP-01



Coaxial Micro-Plugs and Receptacles

CMP Extraction Tool



P/N: CMP-ET-01

- Material: Carbon tool steel
- For easier and faster extraction

