

Features

- 1 Low profile RF connector
(Mated height : 1.2mm Max.)
- 2 Prevention of plug deformation during removal
and enhanced mating retention force.
- 3 Easy-to-identify mounting direction using the polarity key.
- 4 Solder wicking and flux penetration prevention
- 5 Excellent high-frequency performance
- V.S.W.R. : 1.3 Max. (0 to 3GHz)
1.5 Max. (3 to 6GHz)
1.6 Max. (6 to 8GHz)
- 6 Compatible with Pick & Place Mounting



RF

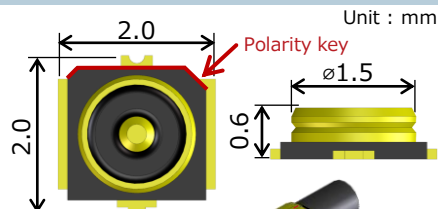
Low Profile

FPC

Dimensions

Receptacle

[K.FL2-R-SMT-1]



Unit : mm

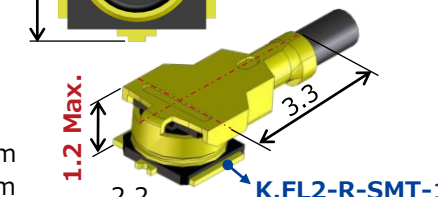
Plug (RF cable type)

[K.FL2-LP-###]

<Double-ended Harness>

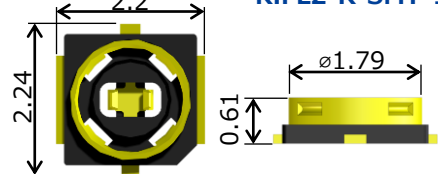
KFL22LP-044H1TS-A100 : ϕ 0.64mm

KFL2-2LP-04H1T-A-100 : ϕ 0.81mm

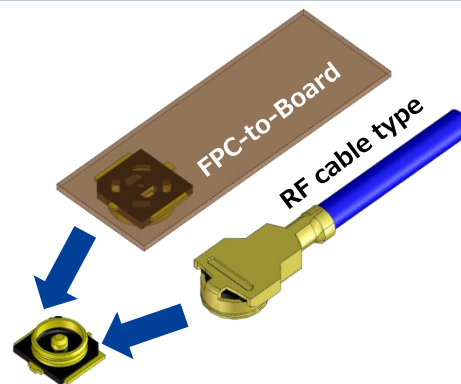


Plug Receptacle (FPC-to-Board type)

[K.FL2-PR-SMT09]



Variations of Mating



Receptacle

K.FL2 has 2 mating variations:

- 1) Receptacle + Plug (Cable type)
- 2) Receptacle + Plug Receptacle
(FPC-to-Board type)

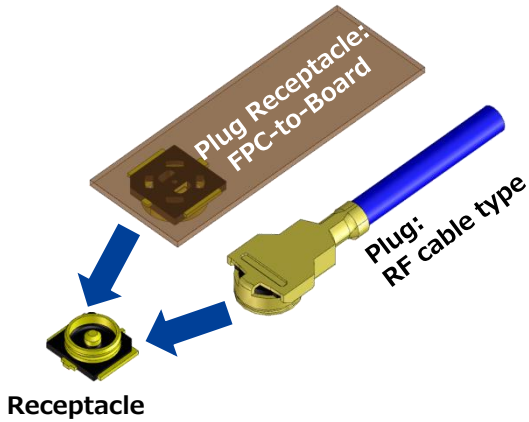
Specifications

Characteristic Impedance	50 Ω
V.S.W.R.	1.3 Max. : 0 to 3GHz 1.5 Max. : 3 to 6GHz 1.6 Max. : 6 to 8GHz
Contact Resistance	20m Ω Max.
Withstanding Voltage	200V AC for 1 min.
Insulation Resistance	500M Ω Min. (100V DC)
Mating Durability	20 times

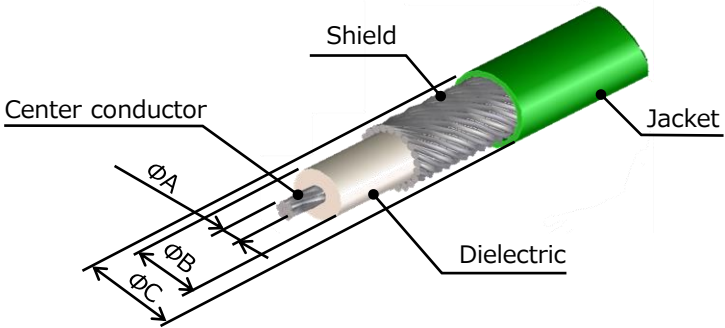
- RoHS compliant, Halogen-free product*

* This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1,500ppm maximum total of chlorine and bromine.

Functional Diagram



Cable Specifications



Part No.	Cable Dimension (mm)		
	ϕA	ϕB	ϕC
KFL2-2LP-04H1T-A-100(800)	36 AWG (7/0.05)	0.43	0.81
KFL22LP-044H1TS-A100(800)		0.45	0.64

*1 The shield configuration shown in this figure may differs from the actual one.

Material and Finish

Component		Material	Finish, Remarks
Plug	Shell	Phosphor Bronze	Gold Plated (Nickel Underplating)
	Insulator	PBT	Black, UL94V-0
	Female Contact	Phosphor Bronze	Gold Plated (Nickel Underplating)
Plug Receptacle	Shell	Phosphor Bronze	Gold Plated (Nickel Underplating)
	Insulator	LCP	Black, UL94V-0
	Female Contact	Phosphor Bronze	Gold Plated (Nickel Underplating)
Receptacle	Shell	Phosphor Bronze	Gold Plated (Nickel Underplating)
	Insulator	LCP	Black, UL94V-0
	Male Contact	Brass	Gold Plated (Nickel Underplating)

Product List

Part No. HRS No.	Connector Type	Specifications
KFL2-2LP-04H1T-A-100(800) CL0480-0753-0-00	Plug <Double-ended Harness>	Cable Length: 100mm
KFL22LP-044H1TS-A100(800) CL0480-0754-0-00	Plug <Double-ended Harness>	Cable Length: 100mm
K.FL2-PR-SMT09(800) CL0480-0452-0-00	Plug Receptacle	-
K.FL2-R-SMT-1(800) CL0480-0442-0-00	Receptacle	-

*2 Please order the plug according to the cable harness specification.