

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

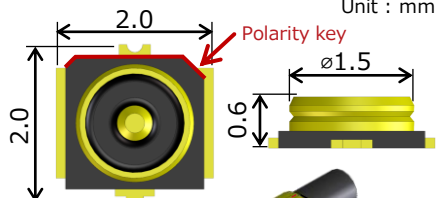
FPC

Dimensions

Unit : mm

Receptacle

[K.FL2-R-SMT-1]



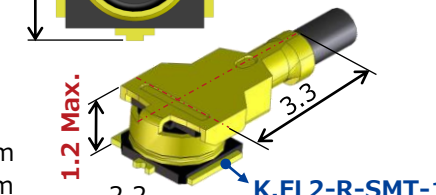
Plug (RF cable type)

[K.FL2-LP-###]

<Double-ended Harness>

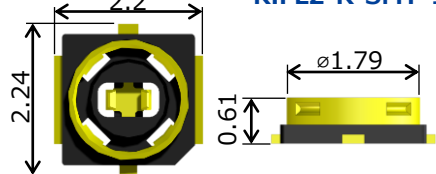
KFL22LP-044H1TS-A100 :  $\phi$ 0.64mm

KFL2-2LP-04H1T-A-100 :  $\phi$ 0.81mm

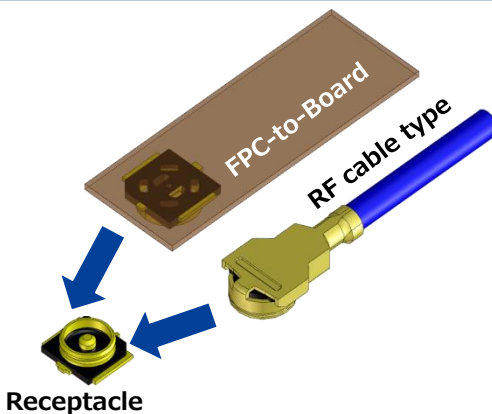


Plug Receptacle (FPC-to-Board type)

[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)

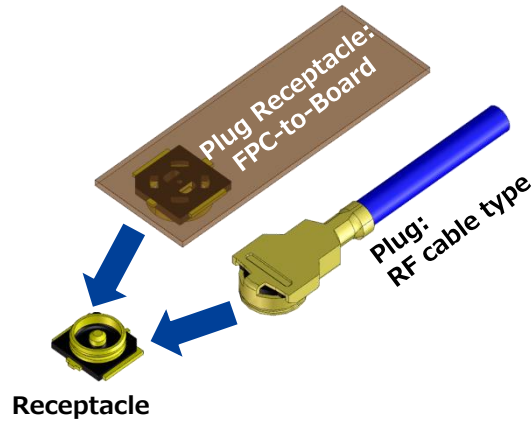
Specifications

Characteristic Impedance	50 $\Omega$
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 $\Omega$ Max.
Withstanding Voltage	200V AC for 1 min.
Insulation Resistance	500M $\Omega$ Min. (100V DC)
Mating Durability	20 times

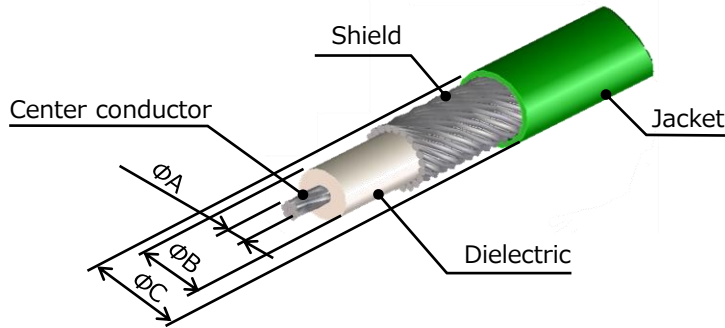
- RoHS compliant, Halogen-free product\*

\* 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)		
	$\phi A$	$\phi B$	$\phi C$
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.