

Non-Magnetic RF Coaxial Connector

Non-Magnetic

Low Outgassing

50Ω

Features

- Both of body and plating are using Non-Magnetic material.
- Quality control is performed for each process from material to finished parts.
We would prepared the environment which could support non-magnetic level conditions from material selection to measurement.
- Also possible to select low outgas material, so it can be used even in the vacuum environment.
- Depends on the custom material, it could be used in special environments, such as Medical Equipment and Cryogenic Temperatures in Aerospace.
- We also able to design and manufacture the PCB with non-magnetic material. Please feel free to contact us.

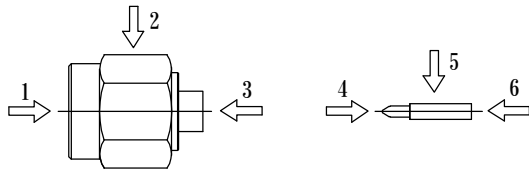
What is Non-Magnetic RF Connector?

For example, it's used in the medical equipment ex. MRI. Since MRI obtains information for the human body by strong electromagnetic waves, in consideration of the effect on magnetic flux, non-magnetic parts are indispensable.

If magnetic material is used in the vacuum environment, magnetic flux would be collected from the surrounding precision equipment, which may reduce the quality of the measurement data by the noise.

On the other hand, if it's non-magnetic which is able to suppress the influence on surrounding precision equipment without collecting magnetic flux, which could do that take high-resolution images and ensuring safety for the human body.

For Non-Magnetic Level we use a dedicated measure device and do it from each direction as the figure down below. Please contact us if you have any specified conditions.



Non-Magnetic Level Measurement Ex.: KSP-F219-ST-HIJ
(Please refer to Page. 22A3)

Measuring	Measurement position	Measured value [μT]
1	Body: Contact	0.3
2	Body: Side	0.3
3	Body: Cable	0.1
4	Center Contact: Contact	0.0
5	Center Contact: Side	0.0
6	Center Contact: Cable	0.0

Application:

Medical Equipment, Aircraft, Satellite,
Electronics Equipment, Precision Equipment

Nominal Impedance	50Ω	
Insulation Resistance	1000MΩ at DC 500V	
Dielectric Withstanding Voltage	AC 500V at 1min	
Non-Magnetic Level	0.4μT at closest position to connector (Typical)	
Materials	Shell	Beryllium Copper (*1)
	Center Contact	
	Insulator	PTFE (*2)
	Gasket	Silicone (Standard)

(*1) Depends on the product, Phosphor Bronze or Brass may able to be used.

(*2) Depends on the product, there are also other than PTFE could be used.

Please contact us and advice your usage conditions, and ask for more information.

SMA Connector

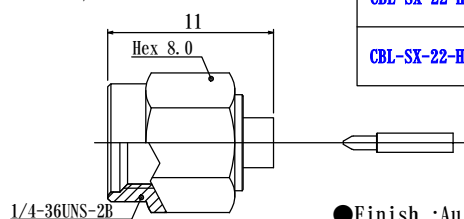
How to order

SMA P -F219- ST -HIJ

P : Plug
J : Jack

ST : Straight (Standard)

Non-Magnetic



Applicable Cable

P/N	Material (Center/Outer Conductor)	Cable Size
CBL-SX-22-HIJ-BE	Beryllium Copper	φ 2.19mm/ 0.086"
CBL-SX-22-HIJ-CU	Copper	

● Finish : Au

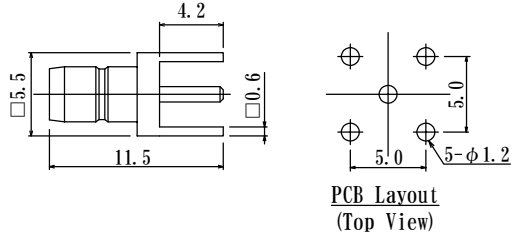
Non-Magnetic RF Coaxial Connector

- Non-Magnetic
- Low Outgassing
- 50Ω

SMB Connector

How to order

SMB- R -PC- ST -HIJ
 P : Plug
 R : Jack
 ST : Straight (Standard)
 Non-Magnetic

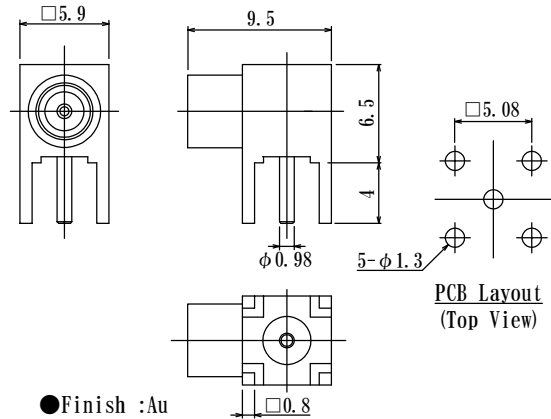


●Finish :Au

MCX Connector

How to order

MCX J -PCBG- RA -HIJ
 P : Plug
 J : Jack
 RA : Right Angle (Standard)
 Non-Magnetic

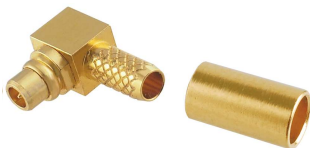


●Finish :Au

MMCX Connectors

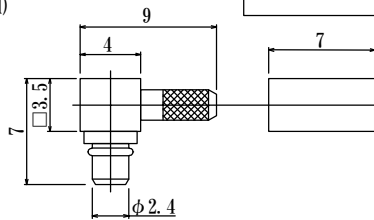
How to order

MMCX- P -15D2V- RA -HIJ
 P : Plug
 J : Jack
 RA : Right Angle (Standard)
 Non-Magnetic



Applicable Cable

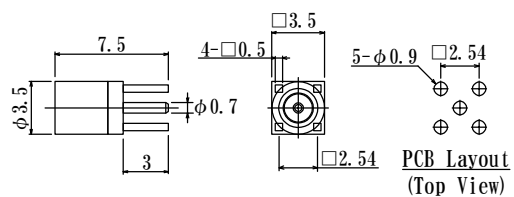
P/N	Material (Center/Outer Conductor)	Cable Size
CBL-L-15D-HIJ	Copper	1.5D-2V equiv.



●Finish :Au

How to order

MMCX-PB J - ST -HIJ
 P : Plug
 J : Jack
 ST : Straight (Standard)
 Non-Magnetic



●Finish :Au

Non-Magnetic RF Coaxial Connector

Non-Magnetic

Low Outgassing

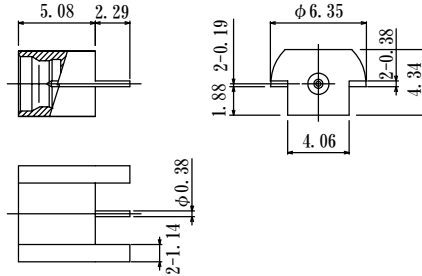
50Ω

SMP Connectors

How to order

SMP- M -E- SMT / FD -HIJ

M : Male
 E : Epoxy Resin
 SMT : Surface Mount
 FD : Full Detent
 LD : Limited Detent
 SB : Smooth Bore
 HIJ : Non-Magnetic



● Finish : Au

Full Detent

Limited Detent

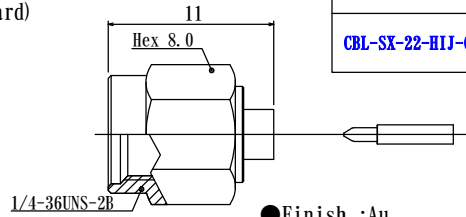
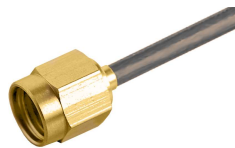
Smooth Bore

K2.92 Connector

How to order

SMK P -F219- ST -HIJ

P : Plug
 ST : Straight (Standard)
 HIJ : Non-Magnetic



Applicable Cable

P/N	Material (Center/Outer Conductor)	Cable Size
CBL-SX-22-HIJ-BE	Beryllium Copper	φ 2.19mm/ 0.086"
CBL-SX-22-HIJ-CU	Copper	

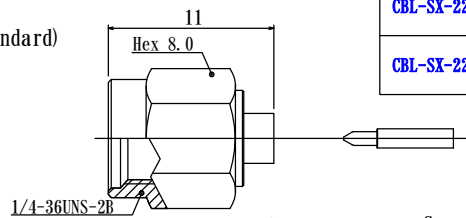
● Finish : Au

KS Connectors

How to order

KS P -F219- ST -HIJ

P : Plug
 ST : Straight (Standard)
 HIJ : Non-Magnetic



Applicable Cable

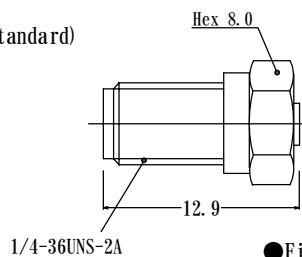
P/N	Material (Center/Outer Conductor)	Cable Size
CBL-SX-22-HIJ-BE	Beryllium Copper	φ 2.19mm/ 0.086"
CBL-SX-22-HIJ-CU	Copper	

● Finish : Au Compatible with SMA, K, 3.5mm.
Necessary to solder the core wire (2 places).

How to order

KS J C-F219- ST -HIJ

J : Jack
 ST : Straight (Standard)
 HIJ : Non-Magnetic



Applicable Cable

P/N	Material (Center/Outer Conductor)	Cable Size
CBL-SX-22-HIJ-BE	Beryllium Copper	φ 2.19mm/ 0.086"
CBL-SX-22-HIJ-CU	Copper	

● Finish : Au Compatible with SMA, K, 3.5mm.
Necessary to solder the core wire (2 places).