

# JRF CONNECTOR

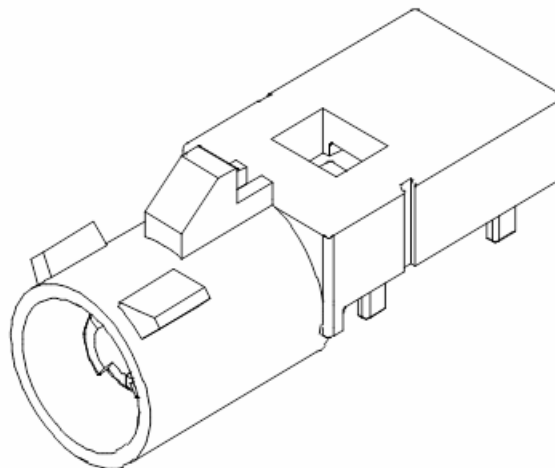
Board-To-Wire/High Frequency



Fully compatible and designed based on requirements from the FAKRA RF and USCAR standards for telematics and automotive communications technology.

## ■ Features

- Interface Compatible with USCAR-18
- 14 Key Codes
- Unsealed PCB Header Connector
- Superb high-frequency performance  
VSWR achieves 1.5 MAX.



## ■ Key Codes (Male side)

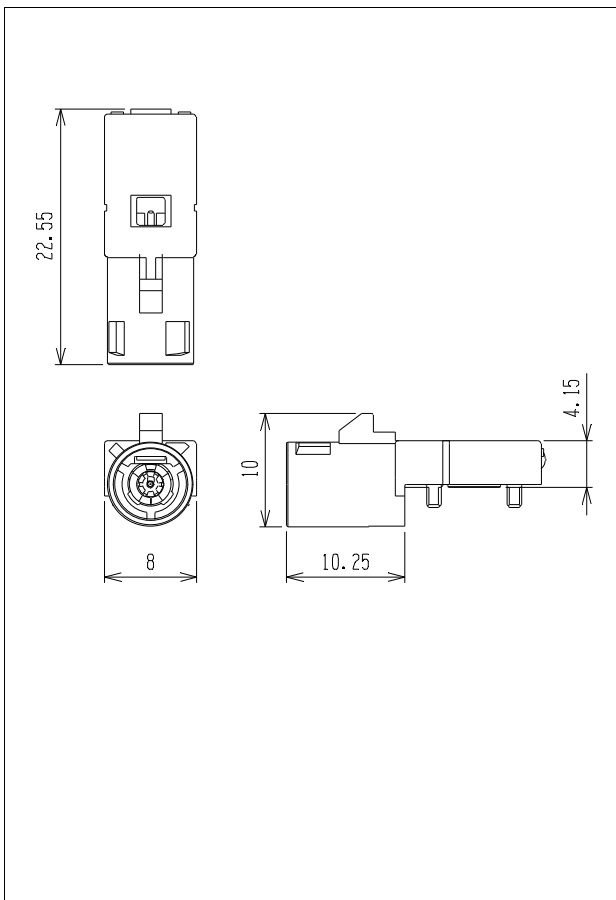
A	B	C	D	E
F	G	H	I	K
L	M	N	Z	

## ■ Specifications

- Current rating : 1A max.
- Withstanding voltage : 800 VAC /minute
- Temperature range : -40°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance : Center\_Contact  
Initial value/ 24 mΩ max.  
After environmental tests/ 24 mΩ max.  
Outer\_Contact  
Initial value/ 5 mΩ max.  
After environmental tests/ 6 mΩ max.
- Insulation resistance : 100 MΩ min.
- Applicable wire : LS Cable 1.5DS-CV
- Frequency : DC~6GHz
- Characteristic impedance : 50 Ω

\*Compliant with ELV/RoHS2.  
\*Contact JST for details.

**Male Connector(Side entry type)**

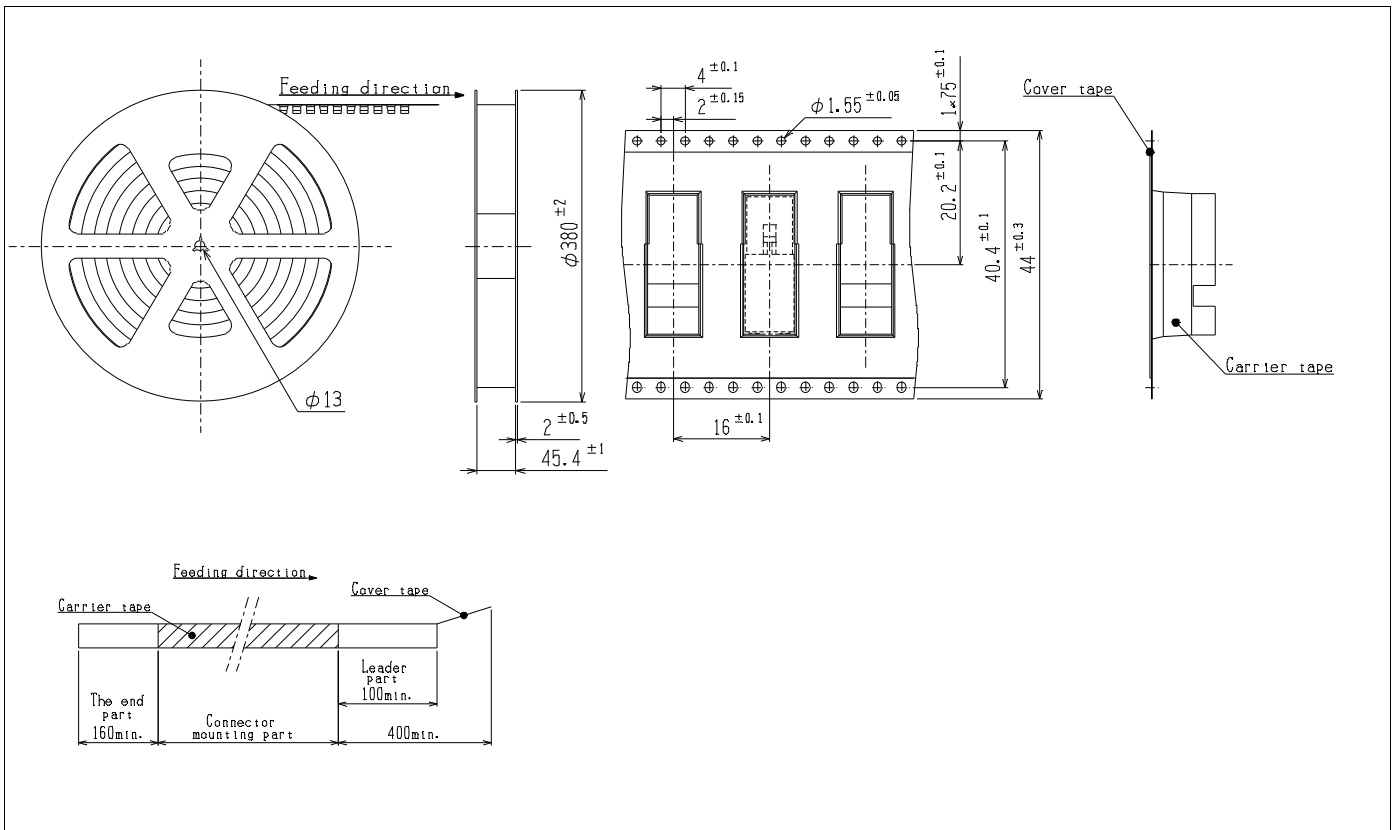


Key Code	Model No.	Q'ty/reel	Housing Color
A	<b>SM01B-JRFKS-1A-TB</b>	480	Jet Black
B	<b>SM01B-JRFWS-1B-TB</b>	480	Cream White
C	<b>SM01B-JRFES-1C-TB</b>	480	Signal Blue
D	<b>SM01B-JRFPS-1D-TB</b>	480	Claret Violet
E	<b>SM01B-JRFMS-1E-TB</b>	480	Leaf Green
F	<b>SM01B-JRFDNS-1F-TB</b>	480	Nut Brown
G	<b>SM01B-JRFHS-1G-TB</b>	480	Blue Gray
H	<b>SM01B-JRFLPS-1H-TB</b>	480	Heather Violet
I	<b>SM01B-JRFLNS-1I-TB</b>	480	Beige
K	<b>SM01B-JRFNS-1K-TB</b>	480	Curry
L	<b>SM01B-JRFRS-1L-TB</b>	480	Carmine Red
M	<b>SM01B-JRFDS-1M-TB</b>	480	Pastel Orange
N	<b>SM01B-JRFLGS-1N-TB</b>	480	Pastel Green
Z	<b>SM01B-JRFLES-1Z-TB</b>	480	Water Blue

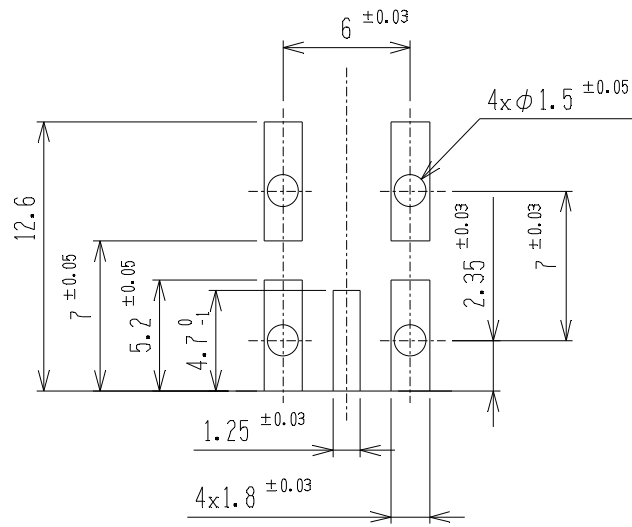
**Material and Finish**

Center Contact : Brass,nickel-undercoated,  
 Contact area; Au-plated  
 Barrel area ; Tin-plated (reflow treatment)  
 Outer Contact : Brass,Nickel-undercoated,Tin-plated (reflow treatment)  
 Housing : PA9T  
 Insulator : PA9T

**Taping Specifications**



## PC board layout



Note: 1. Recommended Board Layout for Soldering.  
2. The dimintions above should as guideline. Contact JST for details.