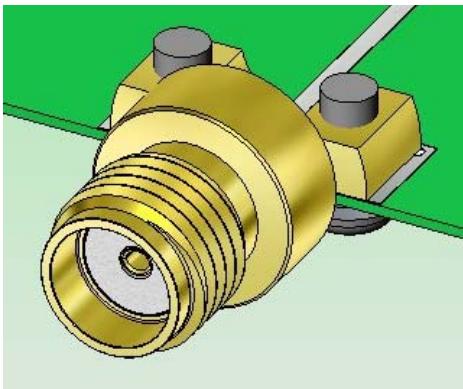


20GHz Coaxial connectors compatible with  
SMA (IEC60169-15) standardsCONNECTOR  
MB-0145-2  
June 2006**End-launch SMA**

**End-Launch  
SMA Connector  
P/N No.: SMAR006D00**

**RoHS Compliant**

SMA (IEC60169-15) type connectors compatible to high-frequency band up to 20 GHz, when mounted on board.

Suitable for mobile phones, PHS, base stations for wireless LAN, access points for wireless communication equipment and other high-frequency devices, high-frequency modules and wireless communication devices that require high reliance under high-frequency band and also measuring devices and for devices compatible to high-frequency band such as transmission characteristic measuring devices.

**Features**

- Compatible to high-frequency band up to 20 GHz, when mounted on board.  
(Additional adjustment will be needed for mounting area dimensions of board.)
- High frequency characteristic, insertion loss without drop and low reflection.
- Easy mounting and repair made possible by screw fixing outer conductor of connector to board without soldering.
- Compatible to all board thickness.  
(Can be applied by selecting length of screw applicable to board thickness.)
- Connection configuration for easy soldering of signal contacts.
- Compatible to high density mounting with maximum breadth 11mm.

**Application**

Mobile phones, PHS base stations, wireless LAN access points, wireless communication equipment, high frequency module, wireless power amplifiers, measuring equipment, transmission characteristic measuring devices, RFID (IC tag, automatic identification), broadcasting equipment etc.

## General Specifications

- Characteristic impedance: 50 ohm.
- Operating frequency:  
DC to 20GHz
- V.S.W.R.: 1.05 max. +0.015xf(Ghz) max.  
(DC to 20GHz)
- Rated current: DC 0.5A
- Rated voltage: AC250V.r.m.s
- Operating temperature :  
-40 to +85 Deg. C
- Contact resistance:  
Signal contact; 4m ohm max.  
(Change after test; 10m ohm max.)
- Dielectric withstanding voltage:  
AC 500 Vr.m.s (1 min.)
- Insulation resistance:  
500M ohm min. (DC500V)

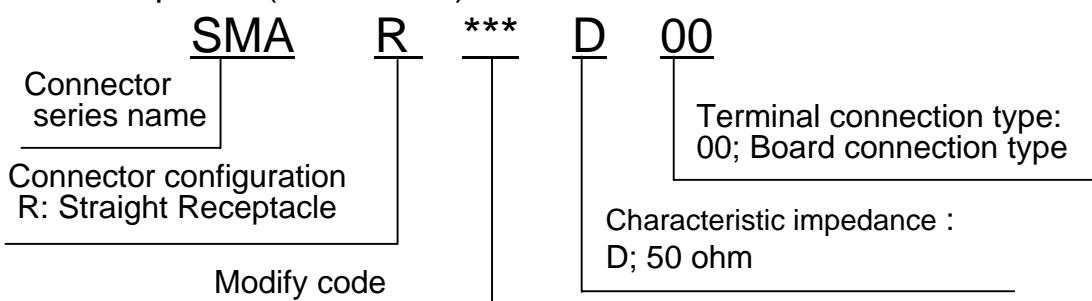
## Materials and Finishes

### ■SMAR006D00

Components	Materials/ Finishes
Insulator	Fluorine ethylene
Signal Contact (Central conductor)	Phosphor bronze/Au plating over Ni
Outer conductor (Ground contact)	Mating area: Brass/ Au plating over Ni Wire connection area for board: Phosphor bronze/ Au plating over Ni

## Ordering Information

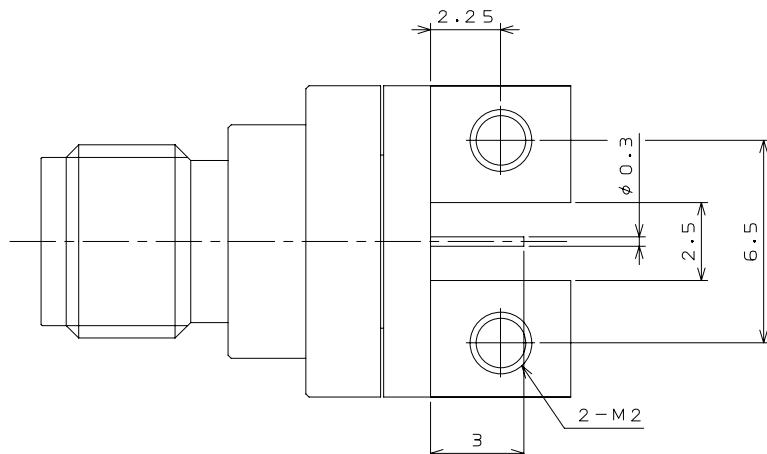
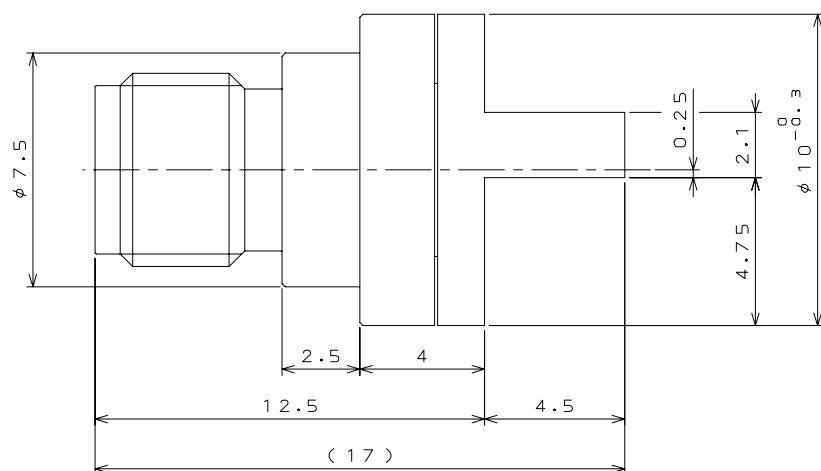
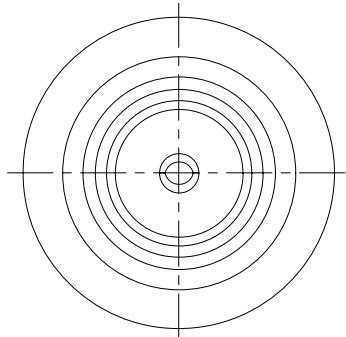
### ■Receptacle (Board side)



## Technical Information

Part Number	SMAR006D00
SJ Drawing	SJ105518
Product Specification	JACS-20061

## Dimensions and Shapes



## Japan Aviation Electronics Industry, Limited

Product Marketing Division

Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539

Phone: +81-3-3780-2787 FAX: +81-3-3780-2946

**Notice:** Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.  
 Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.