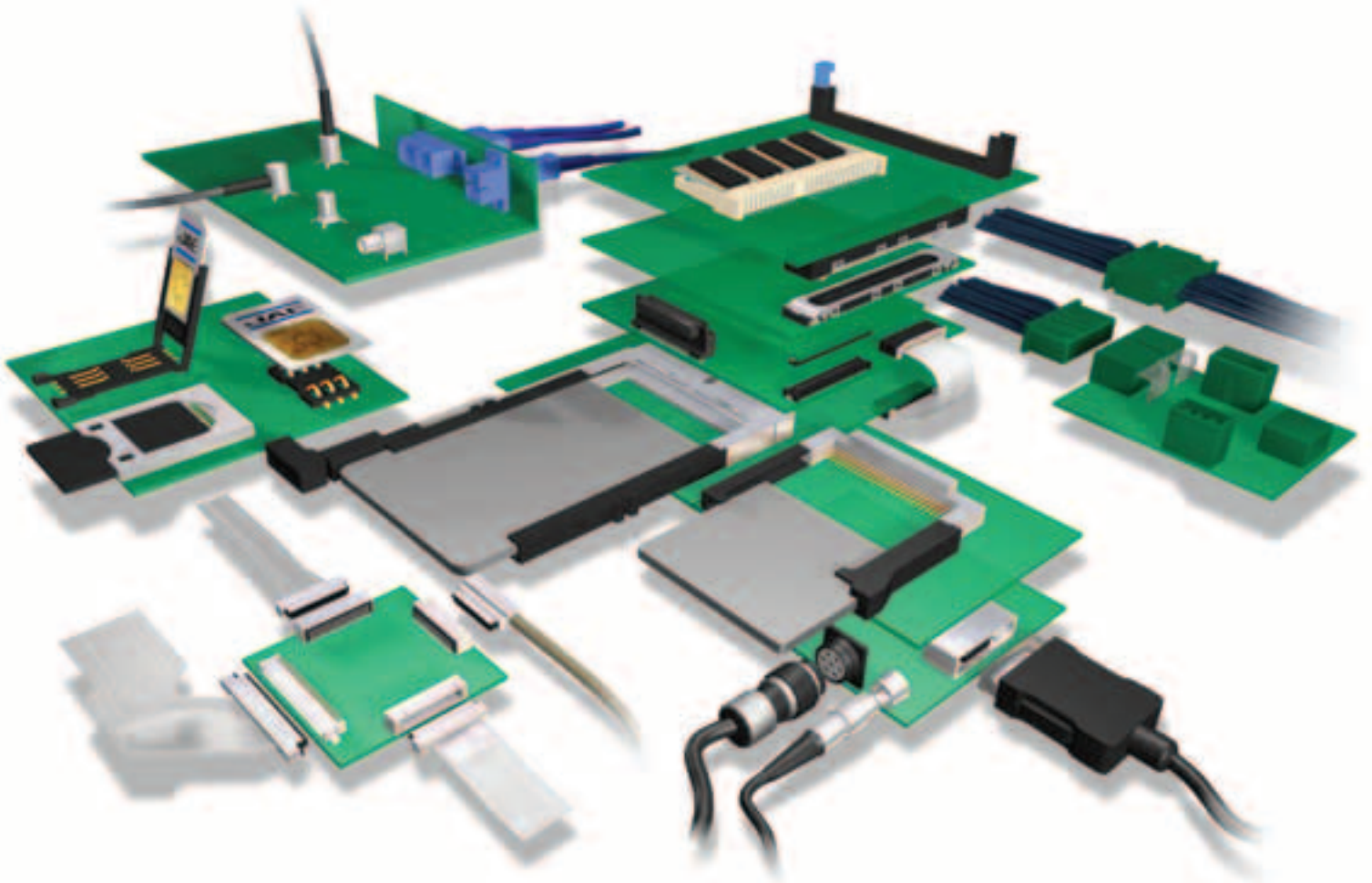


Technology to Inspire Innovation

# ***Preferred Connector Products***

# **JAE**



***JAE Electronics, Inc.***

***For Additional Information Visit [www.jae-connector.com](http://www.jae-connector.com)***

**J**apan Aviation Electronics Industry, Ltd. (JAE) is an international manufacturer and supplier of electronic components and systems. For over four decades, JAE has provided the electronics industry with solutions to complex design requirements. Since its founding, the Company has strived to contribute to society through market-driven, technology-based global business operations under the philosophy: "Technology to Inspire Innovation."

With worldwide and world-class manufacturing certified to ISO 9001 and QS 9000, JAE has made the commitment to meet the global requirements of our customer. In addition to a network of state of the art manufacturing facilities, JAE has technical service offices located around the world, staffed with experts in connector design and application.

This catalog contains a select overview of JAE Connector Products. For in-depth information on our complete product line, and information on new developments, visit JAE's online catalog at [www.jae-connector.com](http://www.jae-connector.com).

Innovative design, quality oriented manufacturing, commitment to our customers and sensitivity to the environment assures JAE's leadership position in the 21<sup>st</sup> century.

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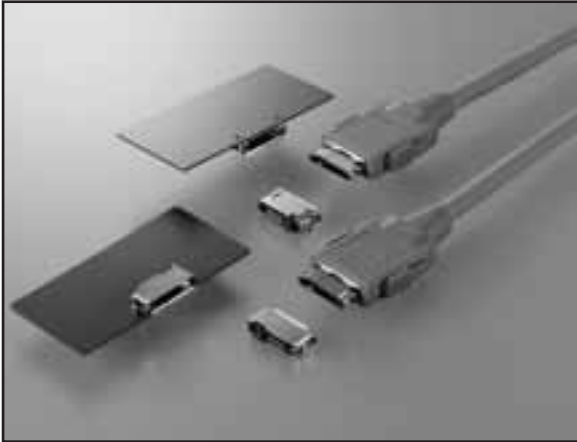
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this catalog are made for the applications specified. 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, Telecommunications Devices (Terminals, Mobile Devices) AV Devices, Household Applications, FA Devices, etc.
- Refer to end of catalog for alphabetical index of products.

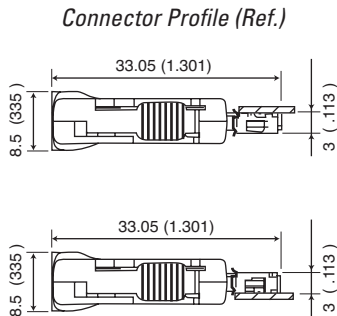
# RA1 SERIES CONNECTORS

## 0.50mm (.020") Contact Spacing, EMI Shielded, PCB-to-Cable Connectors



### FEATURES

- Signal contacts for high speed transmission per USB1.1
- First-to-mate-last-to-break contacts
- Coaxial contact in receptacle compatible with operating frequency up to 2.2GHz
- One touch locking for ease in operation
- 3.0mm (.118") mounted on board (plane portion)
- Metal shell provides shielding against EMI and static electricity
- Receptacle is available in embossed tape for automatic mounting



Dimensions in mm (inches).



The RA1 Series is an integrated connector incorporating signal and coaxial contacts, compliant with the requirements for IMT-2000 mobile phones.

### GENERAL SPECIFICATIONS

Number of Contacts	3, 10, 11 (including 1 coax)
Contact Spacing	0.50mm (.020")
Current Rating	C/T No. 1, 4, 5, 6, 10: 1.0 ADC Other terminals: 0.5 ADC
Dielectric Withstanding Voltage	300 VAC r.m.s. (for one minute) signal 100 VAC r.m.s. (for one minute) signal
Insulation Resistance	1000 megohms min.
Contact Resistance	50 milliohms max.
Operating Temperature	-25°C to +70°C
V.S.W.R.	1.5 max (up to 2.2 GHz)
Connection loss	0.5dB max. (up to 2.2 GHz)
Applicable wire size	#28 AWG max. signal equivalent to 1.5D coax

### MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	9T Nylon
Contact	Copper Connecting area: Gold flash over Palladium Nickel over Nickel Terminal area: Tin-Lead over Nickel
Shell	Stainless Steel/ Tin Plated

### ORDERING INFORMATION

Series	RA1	*	*	**	*	1	*
Contact type	P – Plug R – Receptacle						
Mounting Type	0 – Standard (reverse) 1 – Standard 3 – Standard (short plug)						
No. of Contacts	3, 10, 11 (with coax)						
Termination	F – Cable plug H – Right angel receptacle						
Contact Finish	1 – Connecting area: Gold over Nickel Terminal area: Tin-Lead plated						
Modification	0 – Without coax 1 – Detection 2 – Mechanical switch						

Technology to Inspire Innovation

# JAE

***“Building Technologies  
to Connect Your World”***



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