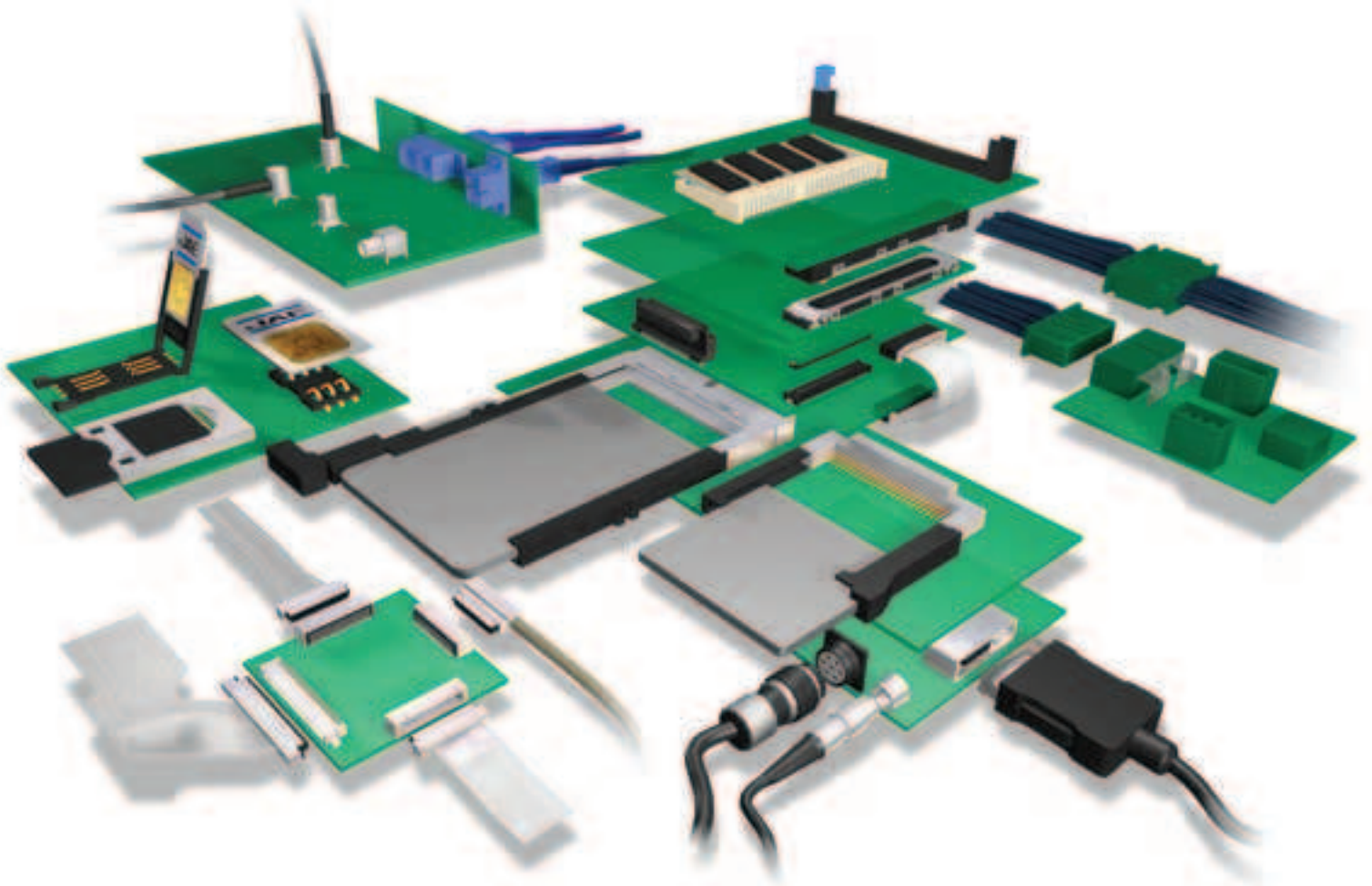


Technology to Inspire Innovation

Preferred Connector Products

JAE



JAE Electronics, Inc.

For Additional Information Visit www.jae-connector.com

Japan 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.

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

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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.

DV2 SERIES CONNECTORS

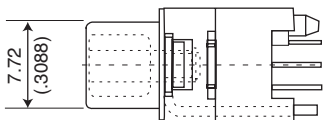
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI



FEATURES

- Interface connector per DVI (Digital Visual Interface) standardized by DDWG (Digital Display Working Group)
- Digital and Analog/Digital versions
- Impedance control, and low cross talk
- Capable of transmitting high-speed video signals
- Receptacle options:
Right Angle: 9.9mm (0.39") high on board
Straight: 4.98mm/ 10.5mm/ 11.5mm (0.20"/ 0.41"/ 0.45") high on board
Right Angle with ground plate structure soldered terminal length 3mm (0.12")
- Ground plate receptacle versions for improved impedance matching
- Plug shell has grounding dimples, which provide excellent EMI shielding
- Available in Single Link cable harness, with excellent transmission characteristics

Connector Profile (Ref.)



.....

The DV2 Series was designed to meet the needs for high performance digital/analog interface between computer graphics input devices and the computer monitor. The DV2 supports Transmission Minimized Differential Signaling (TMDS), and conforms to the Digital Visual Interface (DVI) standard of the Digital Display Working Group (DDWG).

GENERAL SPECIFICATIONS

| | |
|---------------------------------|--|
| Number of Contacts | Digital: 24 signal Analog/Digital: 24 signals, 5 coax |
| Contact Spacing | 1.905mm (.075") |
| Current Rating | 1.5 Amp per contact |
| Dielectric Withstanding Voltage | 500 VAC r.m.s. (for one minute) |
| Contact Resistance | 20 milliohms max. (Initial) 30 milliohms max. (After stress) |
| Applicable Wire Size | Signal Contact: #28 AWG Coax Contact: #30 AWG 750 Hm RGB Coaxial Cable |
| Operating Temperature | -20°C to +85°C |

MATERIALS AND FINISHES

| | |
|-----------------|--|
| Description | Materials/Finishes |
| Insulator | PBT (white, UL94V-0) |
| Location Plate | Nylon 6-6 |
| Shell | Steel, Tin plating |
| Signal Contact | Copper connecting area: Gold 1µm min. over Nickel Terminal Area: Tin-Lead plating |
| Coaxial Contact | Inner contact: Beryllium Copper Ground contact: Phosphor Bronze Connecting area: Gold 1µm min. over Nickel Terminal area: Tin plating |
| Earth Lug | Brass, Tin plating |
| Screw Lock | Steel, Tin plating |

Dimensions and specifications subject to change without notice.

DV2 SERIES CONNECTORS

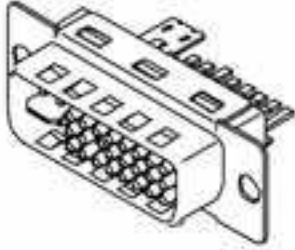
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI

ORDERING INFORMATION

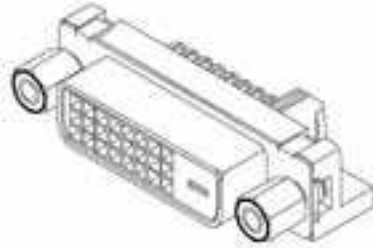
| | | | | | |
|-------------------|---|----------|------------|------------|----------|
| Series | <u>DV2</u> | <u>*</u> | <u>***</u> | <u>***</u> | <u>E</u> |
| Contact Type | | | | | |
| P | - Plug | | | | |
| R | - Receptacle | | | | |
| No. of Contacts | | | | | |
| 024 | - 24 signal contacts | | | | |
| 029 | - 24 signal, 5 coaxial | | | | |
| Mounting Method | | | | | |
| NKA | - Right angle, screwlock, soldered terminal length 3.33mm, ground plate | | | | |
| NKB | - Right angle, without screwlock, soldered terminal length 3.33mm, ground plate | | | | |
| N11 | - Right angle, screwlock, solder terminal length 2.34mm | | | | |
| N12 | - Right angle, without screwlock | | | | |
| N13 | - Right angle, screwlock, solder terminal length 3.33mm | | | | |
| U11 | - Straight receptacle, screwlock, mounting height 4.98mm | | | | |
| U12 | - Straight receptacle, screwlock, mounting height 10.5mm | | | | |
| U13 | - Straight receptacle, screwlock, mounting height 11.5mm | | | | |
| U16 | - Straight receptacle, without screwlock, mounting height 11.5mm | | | | |
| M11 | - Cable plug | | | | |
| Lead Free Version | | | | | |

DV2 SERIES CONNECTORS

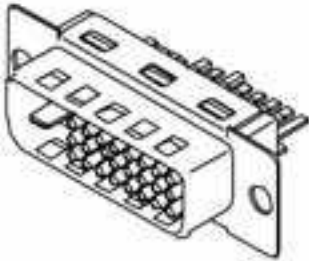
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI



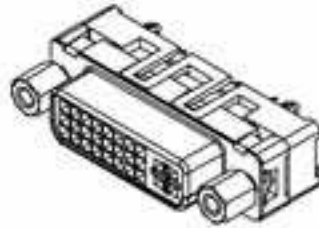
DV2P029M11
(DVI-I Plug)



DV2R024N1*
(DVI-D Right Angle
Receptacle)



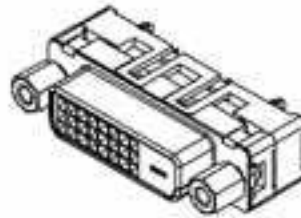
DV2P024M11
(DVI-D Plug)



DV2R029U1*
(DVI-I Straight Receptacle)



DV2R029N1*
(DVI-I Right Angle
Receptacle)



DV2R024U1*
(DVI-D Straight
Receptacle)



DV2**R***NK*
DVI-D, DVI-I
Right Angle Receptacle with
Ground Plate Structure



DV2S*****
DVI-D
Single Link Harness
on both sides

Dimensions and specifications subject to change without notice.

Technology to Inspire Innovation

JAE

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



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