

621/622 SERIES

Plug and Receptacle, Right Angle, .318" (8.08mm) Footprint



FEATURES

- Two contact rows with .318" (8.08mm) footprint right-angle bend.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25- or 37-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and four-prong boardlock for superior retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization.
- Design based on requirements of MIL-C-24308, EIA-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Ferrite Specifications: Attenuation - 20dB MIN @ 30Mhz, 30dB MIN @ 50MHz, and 50dB MIN @ 100Mhz.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area; tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000 V AC rms @ sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C
- Engagement & Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

621.....Plug
622.....Receptacle

TOTAL CONTACTS

009, 015, 025, 037.....50 (machined pin only)

CONTACT/PLATING CODE

260.....Gold Flash (Class 3)
560.....10m" (0.25mm) (Class 2)
660.....30m" (0.76mm) (Class 1)
668.....Ferrite Filter

EDAC INTERNAL USE

0.....Indicates generic internal use code

GROUNDING FEATURE

1......120" (3.05mm) dia. through hole top ground
3.....Two-prong boardlocks for .120" (3.05mm) dia. PCB hole
4.....Four-prong boardlocks for .120" (3.05mm) dia. PCB hole

MOUNTING OPTION

0.....#4-40 UNC fixed standoff
1......125" (3.18mm) dia. through-hole
2.....#4-40 UNC threaded insert
3.....#4-40 UNC threaded standoff
5.....#4-40 UNC threaded standoff & lock washer

ORDERING CODE

Series + Total Contacts + Contact/Plating Code + Edac Internal Use +
+ Grounding Feature + Mounting Option = Ordering Code
Example: 621-025-560-0-1-3

633/634 SERIES

Plug and Receptacle, Right Angle, High-Density, .350" (8.89mm) Footprint



FEATURES

- High-density three contact rows with .350" (8.89mm) footprint right angle bend.
- .090" (2.29mm) contact spacing x .078" (1.98mm) row spacing.
- Optional 9th contact recessed by .050" (1.27mm) on 15-pin part, in accordance with VESADisplay Data Channel Standard.
- Receptacles and plugs 15-, 26-, 44-, 62- and 78-pin contact sizes.
- Socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and two- or four-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIA-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL 94V-0; chemical resistant; colour - black or blue.
- Ferrite Specifications: Attenuation - 17dB MIN @ 30Mhz, 25dB MIN @ 50Mhz and 40dB @ 100Mhz.
- Contact Material: receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Tin/lead plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

633.....Plug
634.....Receptacle

TOTAL CONTACTS

015, 026, 044, 062 (078 - Female Only)

PLATING CODE

2.....Gold Flash (Class 3)
5.....10m" (0.25mm) (Class 2)
6.....30m" (0.76mm) (Class 1)

CONTACT CODE

63.....Standard contacts, black plastic
68.....Ferrite filter
73.....9th contact recessed .050" (1.27mm), black insulator
74.....9th contact recessed .050" (1.27mm), blue insulator

EDAC INTERNAL USE

0.....Indicates generic internal use code

GROUNDING FEATURE

1......120" (3.05mm) dia. through-hole top ground
2......120" (3.05mm) dia. through-hole bottom ground (633)
3.....Two-prong boardlocks for .120" (3.05mm) dia. hole
4.....Four-prong boardlocks for .120" (3.05mm) dia. hole
9.....High-temperature four-prong boardlocks

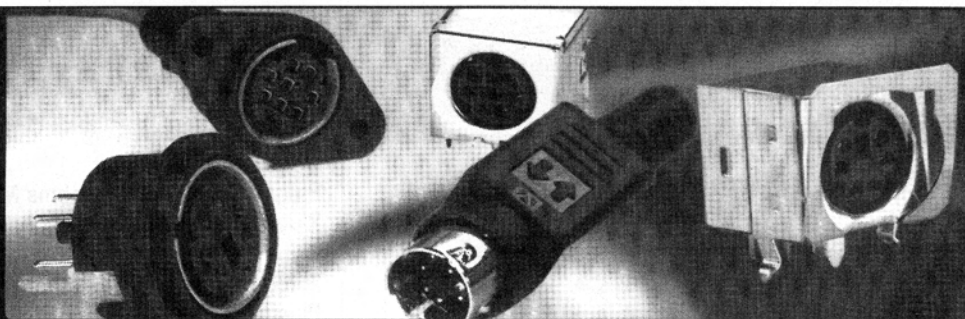
MOUNTING OPTION

0.....#4-40 UNC standoff w/ threaded insert
1......125" (3.18mm) dia. through-hole
2.....#4-40 UNC threaded insert
3.....#4-40 UNC hex standoff w/ threaded insert

ORDERING CODE

Series + Total Contacts + Contact Code + Edac Internal Use +
Grounding Feature + Mounting Option = Ordering Code
Example: 634-015-632-0-4-2

Mini-DIN Connector



5 CONNECTORS

KYCON Continues its leadership in Mini-DIN connectors by offering a complete line of styles and plating options.



Right Angle

KMDG/KFMDG - Gold Plated
KMDG Stacked - Gold Plated
KMDL - Snap and Lock
KMDT - Slim Design



Vertical

KMDVL - Vertical, Snap and Lock



Panel Mount

KMDPL - Panel Mount, Snap and Lock



Cable Mount

KMDLA - Snap and Lock Cable Mount

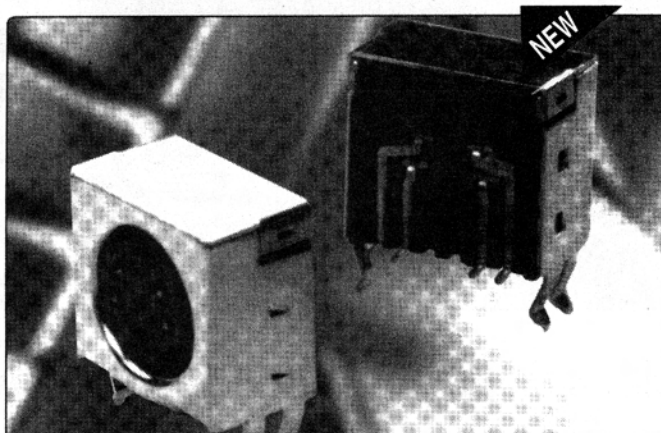
Features



- Audio, Video, Computer, and Digital Equipment Applications
- Snap and Lock Options Available
- PCB and Panel Mount Options
- Variety of Shielding Options for Better Conductivity, Grounding, and EMI/RFI Protection
- Visual and Mechanical Polarization for Plug Insertion
- Reflow Compatible Options Available
- CSA/NRTL Certified File No. LR78160

Mini-DIN Directory

Series	KMDG	KFMDG	KMDG Stacked	KMDL	KMDT	KMDVL	KMDPL	KMDLA
Right Angle	•	•	•	•	•			
Vertical						•		
Panel Mount							•	
Cable Mount								•
Socket	•	•	•	•	•	•	•	
Plug								•
Non-Shielded	•			•		•	•	•
4 Side Shield	•			•	•			
Fully Shielded	•	•	•	•				
Spring Shield	•	•	•					
Low Profile Grounding Tabs	•	•	•					
Reflow Compatible	•		•		•			
Surface Mount					•			
Stacked			•					
Snap & Lock	•	•	•	•		•	•	•
Ferrite		•						
3 Contacts	•	•		•		•	•	•
4 Contacts	•	•	•	•	•	•	•	•
5 Contacts	•	•		•		•	•	•
6 Contacts	•	•	•	•	•	•	•	•
7 Contacts	•	•		•				•
8 Contacts	•	•	•	•		•	•	•
9 Contacts	•							



KMDT Series Slim Design Right Angle Mini-DIN

Features



- Licensed From AMP
- Audio, Video, Computer, and Digital Equipment Applications
- Slim Design Saves On Board Space
- Available in SMT and Reflow Compatible Through Hole Designs
- Front Shield for EMI/RFI Protection
- Contact Area with Gold Plating
- CSA/NRTL Certified File No. LR78160

Performance Specifications Materials and Finish

Body



High Temperature Thermoplastic, Black Color, UL94V-0 Rated

Contacts

Phosphor Bronze, Gold Plated

Shield

Brass, Tin Plated

Mechanical Characteristics

Durability: 500 Cycles Min.

Insertion Force: 0.5kg - 4.5kg

Extraction Force: 0.4kg - 3.5kg

Operating Temperature: -25°C to +70°C

Electrical Characteristics

Contact Current Rating

Before Durability Test

Plug to Shield - 50 Milliohms Max.

Plug to Terminals - 30 Milliohms Max.

After Durability Test

Plug to Shield - 100 Milliohms Max.

Plug to Terminals - 60 Milliohms Max.

Insulation Resistance

500 Megohms Min.

Dielectric Withstanding Voltage

500V AC RMS for 1 Minute.

Current Rating

1 Amp at 12V DC

Ordering Information

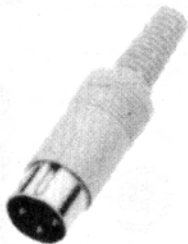
KMDT	-	SMT	-	6	-	S	-	SC	-	
Series		Style		Number of Contacts		Contact Type				Plating Options
Series KMDT - Right Angle PCB Mount Mini Din										
Style SMT - Surface Mount HT - Reflow Compatible Through Hole (See page 39)										
Number of Contacts 4 - 4 Contacts 6 - 6 Contacts										
Contact Type S - Receptacle										

Plating Option

Standard	Gold flash over nickel on contacts. Tin/lead over nickel on soldertails.
30	30μ" gold over nickel on mating end of contacts. Tin/lead over nickel on soldertails.*

*Minimum Quantities May Apply

C I R C U L A R D I N C O N N E C T O R S



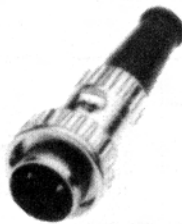
MALE CORD PLUG Series 76597. For applications not requiring metal bodies. Available in black or grey.



CORD PLUG Extended Barrel Series 71408. For cable-to-cable or cable-to-panel applications not requiring locking connection.



RIGHT ANGLE 8 Position Barrel Series 71432. Right angle configuration for limited space applications. Barrel can be set for 8 cable approach angles.



CORD PLUG locking Series 71430. For cable-to-cable or cable-to-panel applications with 30° locking ring. Heavy duty clamp with flexible black cable sleeve.



RIGHT ANGLE 8 Position Barrel Locking Series 71434. Right angle 8 position barrel with 30° locking ring. Flexible black cable sleeve.

Preh circular DIN connectors are rugged connectors designed to provide reliable interconnections to peripheral equipment and control devices. They provide from 3 to 8 contacts per connector at operating power up to 3A/34V.

Connectors are available with nickel-plated zinc die cast bodies for rugged applications and with plastic bodies. Insert material is molded phenolic. Female "tuning fork" type contacts are silver plated, male pins are tinned.

Connectors and contacts can be custom plated.



FEMALE CORD PLUG Series 76597. For applications not requiring metal bodies. Available in black or grey.



FEMALE CORD PLUG Locking Series 71506. Mates with male plugs equipped with 30° locking rings. Metal body with flexible black cable sleeve.



FEMALE CORD PLUG Series 71502 For normal cable-to-cable and cable-to-panel applications. Metal body with flexible black cable sleeve.



PANEL MOUNT Series 71216. Male panel mount connector. Steel body, through-shell grounding.



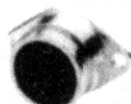
BOARD MOUNT Series 71249. Male PC board mount. Black plastic body with grounding contact.



BOARD MOUNT Series 71204. Receptacle for direct mounting to PC boards. Features a drawn metal shell.



PANEL MOUNT Series 71200. Receptacle designed to mate with extended body cord plugs. Drawn metal shell, through-shell grounding.



PANEL MOUNT Locking Series 71206. Receptacle designed to mate with males equipped with 30° locking rings. Die cast metal body.



BOARD MOUNT Series 71251. Receptacle with flange for 30° locking ring, for PC board mount. Die cast metal body.



BOARD MOUNT Series 71222. Receptacle for direct mounting to PC boards. Black plastic body with through-shell grounding.



BOARD MOUNT EMI/RFI Shielded Series 71222. Receptacle with metal face to provide common ground between connectors, board and chassis. 360° shielding. Black plastic body.

MINI-DIN CONNECTORS

5

CONNECTORS

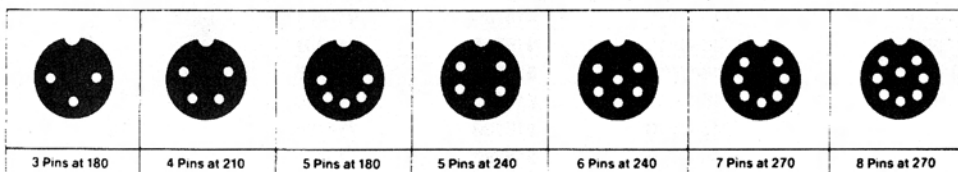


PIN ARRANGEMENT	PC Board Mount Receptacle	Moldable Female Cord Plug	Moldable Male Cord Plug	Assembly-type Male Cord Plug
3 Pins @ 180	MRP3FS	MMP3F	MMP3M	MCP3M
4 Pins @ 210	MRP4FS	MMP4F	MMP4M	MCP4M
5 Pins @ 180	MRP5FS	MMP5F	MMP5M	MCP5M
6 Pins @ 240	MRP6FS	MMP6F	MMP6M	MCP6M
7 Pins @ 270	MRP7FS	MMP7F	MMP7M	MCP7M
8 Pins @ 270	MRP8FS	MMP8F	MMP8M	MCP8M

For optional gold contacts add -G to part number

A series of Mini-DIN Connectors featuring nickel plated brass shells with PBT3210 (Celanex) wafers. Electrical Rating: 100 VAC-1A or 12 VDC-2A Max. Dielectric Strength: 500V-1 Minute. Operating Range: -13° to +150°F.

MOLDABLE DIN CONNECTORS



Pin and Contact Configuration

PLUGS

PIN ARRANGEMENT	Male Cord Plug *10372-027	Male Cord Plug *10472-011	Male Cord Plug 76597	Male Cord Plug 71408	Male Cord Plug 71432	Male Cord Plug 71430	Male Cord Plug 71434	Male Panel Mt. 71216	Male PC Mt. 71249
(A) 3 Pins @ 180	10455-035	10455-035	-630	-030	-030	-030	-030	-030	-032
(B) 4 Pins @ 210	10455-036	10455-036	-640	-040	-040	-040	-040	-040	—
(C) 5 Pins @ 240	10455-038	10455-038	-652	-250	-250	-250	-250	-051	—
(D) 5 Pins @ 180	10455-037	10455-037	-650	-053	-050	-050	-050	-050	-052
(E) 6 Pins @ 240	10455-039	10455-039	-660	-060	-060	-060	—	—	—
(F) 7 Pins @ 270	10455-040	10455-040	-670	-070	-070	-070	—	—	-072
(G) 8 Pins @ 270	10455-041	10455-041	-680	-080	-080	-080	—	—	—

RECEPTACLES

PIN ARRANGEMENT	Female Cord Plug *10372-028	Female Cord Plug 76597	Female Cord Plug 71502	Female Cord Plug 71506	Female Cord Plug 71204	Female Panel Mt. 71200	Female Panel Mt. 71206	Female Board Mt. 71251	Female Board Mt. 71222	Female Board Mt. EMI/RFI 71222
(A) 3 Pins @ 180	10425-081	—	-030	-030	-030	-030	-030	-030	-030	-034
(B) 4 Pins @ 210	10425-082	—	-040	-040	-040	-040	-040	-040	-040	-041
(C) 5 Pins @ 240	10425-084	—	-250	-250	-051	-150	-050	-250	-059	-153
(D) 5 Pins @ 180	10425-083	-692	-050	-050	-050	-050	-051	-050	-054	-152
(E) 6 Pins @ 240	10425-085	-693	-060	-060	-060	-060	—	-060	-061	-064
(F) 7 Pins @ 270	10425-086	—	-070	-070	-070	-070	-070	-070	-070	-071
(G) 8 Pins @ 270	10425-087	—	-080	-080	-080	-080	-080	-080	-081	-084

* Shell and pin & water assembly must be ordered separately

A series of circular DIN plugs designed specifically for molding. Features include a one-piece, nickel-plated shell and snap-in seating of the pin and wafer assembly. Design benefits include excellent EMI/RFI shielding, lower labor costs and a low profile finished product.

Power Rating: 3A/34V. Dielectric Strength: 500V RMS. Operating Range: -13°F to +150°F.