

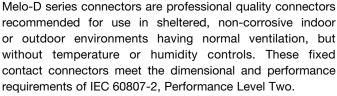
Size 20 Contacts, Fixed

IEC Publication 60807-2 Performance Level Two

UL Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication UL File #E140980



Melo-D series connectors utilize precision machined contacts which are fixed within the connector body. The female contact is an open entry design contact, precision machined of high tensile phosphor bronze.



Six standard connector variants are offered in arrangements of 9, 15, 25, 37 and 50 contacts. Each Melo-D connector variant is available with contact terminations for solder cup, and straight and right angle (90°) printed board mount terminations featuring a choice of three printed board footprints. Melo-D series connectors are mateable and compatible with all D-subminiature connectors conforming to IEC 60807-2, IEC 60807-3 and MIL-DTL-24308.

A wide assortment of printed board mounting hardware, cable support hoods and locking systems is available from stock.

MELO-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Glass filled polyester per ASTM D5927, Insulator:

UL 94V-0, black color.

Contacts: Precision machined copper alloy.

Contact Plating: Professional performance Gold flash over

nickel plate. Other finishes available upon

request.

Interfacial Seal: Thermoplastic Elastomer (TPE),

Santoprene™ or equivalent

Steel with tin plate; zinc plate, stainless steel passivated. Other materials and finishes Shells:

available upon request.

Mounting Spacers

and Brackets: Nylon; copper alloy or steel with zinc plate or tin plate; phosphor bronze with tin plate;

stainless steel, passivated; polyester. Phosphor bronze or beryllium copper with

Push-On Fasteners:

Jackscrew Systems: Brass or steel with zinc plate or clear zinc plate or tin plate; stainless steel, passivated.

Vibration Lock Systems: Slide lock and lock tabs, steel with nickel

plate.

Hoods: Composite and plastic, UL 94V-0; brass or steel with zinc plate. Aluminum; aluminum

with electroless nickel plate. For aluminum hoods, zinc content is 1% maximum. Die

cast zinc.

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contact, male - 0.040 inch [1.02mm]

mating diameter. Female contact - rugged

open entry design.

Contact Retention In Insulator:

6 lbs. [27N] Resistance To Solder

Iron Heat:

500°F [260°C] for 10 seconds duration per IEC 60512-6.

Contact Terminations:

Mounting To Angle Brackets:

Solder cup contacts - 0.042 inch [1.06mm] minimum hole diameter for 20 AWG [0.5mm²]

wire maximum.

Straight Printed Board Mount - 0.028 inch

[0.71mm] termination diameter.

Right Angle (90°) Printed Board Mount - 0.028 inch [0.71mm] termination diameter for all printed board footprints.

Shells: Male shells may be dimpled for EMI/ESD ground paths.

Trapezoidally shaped shells and polarized Polarization: jackscrews.

Jackscrews and riveted fasteners with a

0.120 inch [3.05mm] clearance hole, and

threaded riveted fasteners with 4-40 threads and polyester lock inserts.

Mounting To Printed Board: Rapid installation push-on fasteners and

threaded posts.

Locking Systems: Jackscrews and vibration locking systems. **Mechanical Operations:** 500 operations minimum per IEC 60512-5.

ELECTRICAL CHARACTERISTICS: Contact Current Rating: 7.5 amperes nominal.

Initial Contact 0.008 ohms maximum. Resistance:

Insulation Resistance: 5 G ohms. **Proof Voltage:** 1000 V r.m.s.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm].

Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range: -55°C to +125°C.

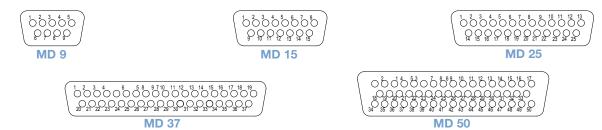
Damp Heat, Steady

State: 10 days.

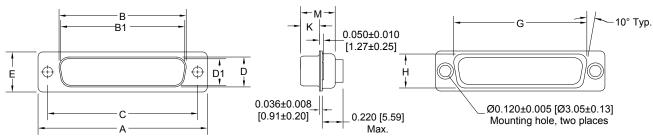


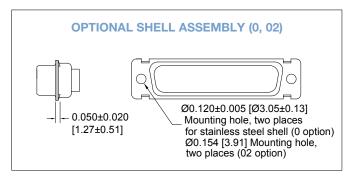
CONTACT VARIANTS

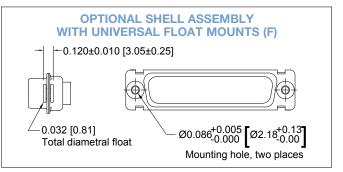
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY





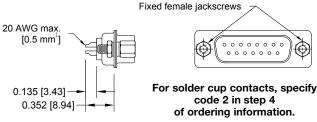


1											
CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C <u>±0.005</u> [0.13]	D ±0.005 [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	G ±0.010 [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
9 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9 F	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]
15 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
25 M	<u>2.088</u> [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
25 F	2.088 [53.04]	1.511 [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	0.230 [5.84]	<u>0.426</u> [10.82]
37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]
50 M	2.635 [66.93]	·	2.079 [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
50 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

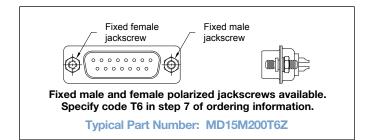


SOLDER CUP TERMINATION





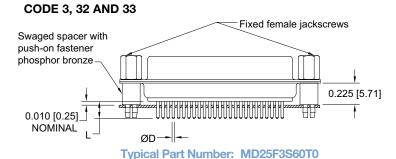




STRAIGHT PRINTED BOARD MOUNT TERMINATION

CODE 3 0.150 [3.81] 0.028 [0.71] 32 0.375 [9.53] 0.028 [0.71] 33 0.500 [12.70] 0.028 [0.71]

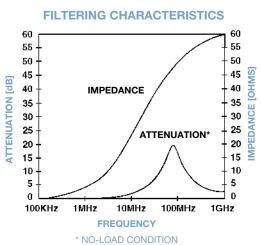
For straight printed board mount contacts, specify code number in step 4 of ordering information.



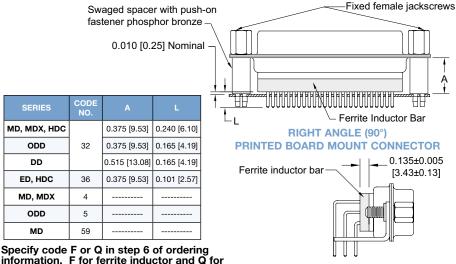
FERRITE INDUCTOR BAR FOR EMI/RFI NOISE SUPPRESSION

CODE F AND Q

STRAIGHT PRINTED BOARD MOUNT CONNECTOR



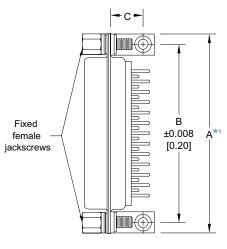
MATERIAL: Nickel zinc ceramic



information. F for ferrite inductor and Q for ferrite inductor with push-on fastener.



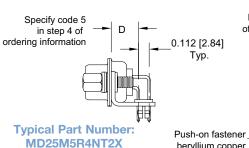
RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION CODE 5, 0.283 [7.19] CONTACT EXTENSION



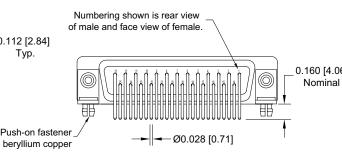
MD**5**** 0.283 [7.19] CONTACT EXTENSION											
PART NUMBER	A*1	В	С	D							
MD9*5****	1.204	<u>0.984</u>	<u>0.339</u>	<u>0.283</u>							
	[30.58]	[24.99]	[8.61]	[7.19]							
MD15*5****	<u>1.532</u>	1.312	<u>0.339</u>	<u>0.283</u>							
	[38.91]	[33.32]	[8.61]	[7.19]							
MD25*5****	2.072	1.852	<u>0.339</u>	<u>0.283</u>							
	[52.63]	[47.04]	[8.61]	[7.19]							
MD37*5****	<u>2.720</u>	2.500	<u>0.339</u>	<u>0.283</u>							
	[69.09]	[63.50]	[8.61]	[7.19]							
MD50*5****	2.626	<u>2.406</u>	<u>0.395</u>	<u>0.283</u>							
	[66.70]	[61.11]	[10.03]	[7.19]							

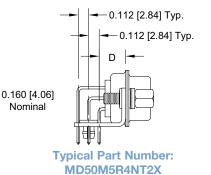
NOTE:

*1 "A" dimension applies for metal angle brackets only. Consult Accessories D-subminiature catalog for "A" dimension when plastic brackets are used.

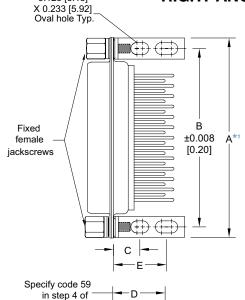


0.125 [3.18]





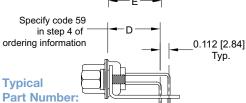
RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION CODE 59, 0.545 [13.84] CONTACT EXTENSION



MD**59**** 0.545 [13.84] CONTACT EXTENSION												
PART NUMBER	A*1	В	C	D	Е							
MD9*59****	<u>1.204</u>	<u>0.984</u>	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>							
	[30.58]	[24.99]	[6.99]	[13.84]	[15.27]							
MD15*59****	<u>1.532</u>	1.312	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>							
	[38.91]	[33.32]	[6.99]	[13.84]	[15.27]							
MD25*59****	2.072	<u>1.852</u>	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>							
	[52.63]	[47.04]	[6.99]	[13.84]	[15.27]							
MD37*59****	2.720	2.500	<u>0.275</u>	<u>0.545</u>	<u>0.601</u>							
	[69.09]	[63.50]	[6.99]	[13.84]	[15.27]							
MD50*59****	2.626	<u>2.406</u>	<u>0.275</u>	<u>0.545</u>	<u>0.657</u>							
	[66.70]	[61.11]	[6.99]	[13.84]	[16.69]							

NOTE:

*1 "A" dimension applies for metal angle brackets only. Consult Accessories D-subminiature catalog for "A" dimension when plastic brackets are used.



Numbering shown is rear view

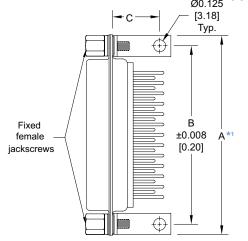
MD25M59B0T2X 0.112 [2.84] Typ. 0.112 [2.84] Typ.

Typical Part Number:

MD25M59B0T2X



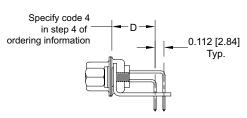
RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION $_{\odot 0.125}$ CODE 4, 0.450 [11.43] CONTACT EXTENSION



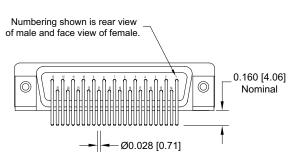
MD**4**** 0.450 [11.43] CONTACT EXTENSION											
PART NUMBER	A*1	В	С	D							
MD9*4****	1.204	<u>0.984</u>	<u>0.506</u>	<u>0.450</u>							
	[30.58]	[24.99]	[12.85]	[11.43]							
MD15*4****	<u>1.532</u>	1.312	<u>0.506</u>	<u>0.450</u>							
	[38.91]	[33.32]	[12.85]	[11.43]							
MD25*4****	2.072	<u>1.852</u>	<u>0.506</u>	<u>0.450</u>							
	[52.63]	[47.04]	[12.85]	[11.43]							
MD37*4****	<u>2.720</u>	<u>2.500</u>	<u>0.506</u>	<u>0.450</u>							
	[69.09]	[63.50]	[12.85]	[11.43]							
MD50*4****	2.626	<u>2.406</u>	<u>0.562</u>	<u>0.450</u>							
	[66.70]	[61.11]	[14.27]	[11.43]							

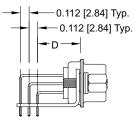
NOTE:

*1 "A" dimension applies for metal angle brackets only. Consult Accessories D-subminiature catalog for "A" dimension when plastic brackets are used.



Typical Part Number: MD25M4B0T20



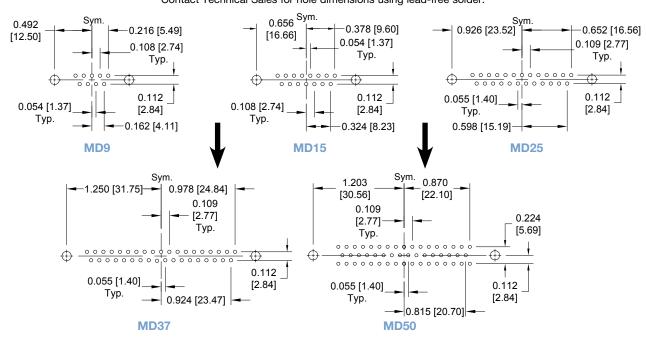


Typical Part Number: MD50M4B0T20

RIGHT ANGLE (90°) AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

MOUNT CONNECTOR WITH MATING FACE POSITIONED TO FOLLOW DIRECTION OF ARROW.

Contact Technical Sales for hole dimensions using lead-free solder.



SUGGESTED PRINTED BOARD HOLE SIZES:



D-Sub

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 8

STEP	1	2	3	4	5	6	7	8	9		10		
EXAMPLE	EXAMPLE MD 25				R7	N	Т6	Х	/AA				
STEP 1 - BASIC S MD series.							-14 - 0.i	000030 [0. ckel.	CIAL OPTION .76µ] gold over	IS			
9, 15, 25, 37, 50											PECIAL OF		
STEP 3 - CONNE M - Male P - Male with interfa F - Female STEP 4 - CONTA(2 - Solder cup. 3 - Solder, straight [3.81] tail lengtl 32 - Solder, straight [9.52] tail lengtl 33 - Solder, straight [12.70] tail leng 4 - Solder, right an 0.450 [11.43] co 5 - Solder, right an 0.283 [7.19] co 59 - Solder, right an 0.545 [13.84] co			0 *³V3	0 - S - X - Z - EP 7 - L0 - None - Lock	/AA NOTE legisla be use 8 - Shel Zinc plate Stainless Tin plated Tin plated OCKING	- RoHS Co : If complition is not ed. Examp II Option ed. steel, pas d. d and dimp	ompliant iance to en t required, ole: MD25F s ssivated. oled (male old (male old (male) t panel mo	nvironmental this step will not 59R7NT6X connectors only IG SYSTEMS	y).				
**1STEP 5 - MOUNTING STYLE 0 - Mounting hole, 0.120 [3.05] ø. 02 - Mounting hole, 0.154 [3.91] ø. B - Bracket, mounting, right angle (90°) metal. B3 - Bracket, mounting, right angle (90°) metal with cross b B7 - Bracket, mounting, right angle (90°) plastic. B8 - Bracket, mounting, right angle (90°) plastic with cross F - Float mounts, universal. P - Threaded post, brass, 0.225 [5.71] length.							*3 V5 *3 VL T T2 T6 E E2 E3	LockLockFixedFixedRotatRotatRotat	tab, conn lever, use female ja female ja male and ing male j ing male s ing male s	ector rear d with Ho ckscrews ckscrews I female p ackscrew screw lock with intern	panel mounds only olarized jacks. ss. al hex for s	unted.	;

- Threaded post, nylon, 0.225 [5.71] length. Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 thread fixed female jackscrews.
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 thread fixed female jackscrews with cross bar.
- Bracket, mounting, right angle (90°) metal, swaged to connector with 0.120 [3.05] ø mounting hole. R3 -
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads. R4 -
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut.
- Bracket, mounting, right angle (90°) metal, swaged to connector with 0.120 [3.05] ø mounting hole with cross bar. R6 -
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads with cross bar.
- R8 -Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut with cross bar.
- Swaged spacer, 4-40 threads, 0.225 [5.71] length. Swaged spacer, 4-40 threads, 0.125 [3.18] length. Š2
- S5 Swaged locknut, 4-40 threads.
- Swaged spacer with push-on fastener, 4-40 threads, 0.225 [5.71] length.
- Swaged spacer with push-on fastener for use with ferrite inductor, 4-40 threads, 0.375 [9.53] length.

*1 STEP 6 - HOODS AND PUSH-ON FASTENERS

- 0 None.
- J Hood, top opening, plastic.
- L Hood, side opening, plastic.
- Y Hood, top opening, plastic with rotating male jackscrews. Available in size 50 only.
- Y6 Hood, top opening, plastic with rotating male and female polarized jackscrews. Available in size 50 only.
- Z Hood, top or side opening, robust and extended height, composite and plastic with rotating male jackscrews. Available in size 9, 15, 25, 37, and 50 only.
- H Hood, top opening, metal. Available in size 15, 25, 37, and 50 only.
- G Hood, EMI/RFI, die cast zinc. Available in size 9, 15, 25, 37, and 50
- AN Lightweight aluminum hood, nickel finish.
- AL Lightweight aluminum hood, nickel finish, low-profile.
- W Hood, top or side opening, plastic. Available in size 9, 15, and 25 only.
- N Push-on fastener for right angle (90°) mounting brackets.
- *2 F Ferrite inductor.
- *2 Q Ferrite inductor for use with push-on fastener and right angle (90°) mounting brackets.

^{*1} For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

^{*2} Ferrite inductor is available on contact types 32, 33, 4, 59 and 6 only. For more information on ferrite inductors, see page 7.

^{*3} VL, V3 and V5 locking systems are not available for connector variants 37 and 50. Jackscrews are highly recommended to minimize damage to contacts on variants with high mating forces.

D-Sub

PROFESSIONAL QUALITY **FIXED CONTACT** STANDARD DENSITY D-SUBMINIATURE



Size 20 Contacts, Fixed **European Standard** Printed Circuit Board Layout IEC Publication 60807-2 Performance Level Two

UL Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication UL File #E140980

Euro-D series connectors are professional quality connectors recommended for use in sheltered, non-corrosive indoor or outdoor environments having normal ventilation, but without temperature or humidity controls. These fixed contact connectors meet the dimensional and performance requirements of IEC 60807-2, Performance Level Two.

Euro-D series connectors utilize precision machined contacts which are fixed within the connector body. The female contact is an open entry design contact, precision machined of high tensile phosphor bronze.



Six standard connector variants are offered in arrangements of 9, 15, 25, 37 and 50 contacts. Each Euro-D connector variant is available with contact terminations for solder cup, straight and right angle (90°) printed board mount terminations per standard European metric footprints. Euro-D series connectors are mateable and compatible with all D-subminiature connectors conforming to IEC 60807-2, IEC 60807-3 and MIL-DTL-24308. A wide assortment of printed board mounting hardware, cable support hoods and locking systems is available from stock.

EURO-D SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled polyester per ASTM D5927,

UL 94V-0, black color.

Precision machined copper alloy. Contacts:

Contact Plating: Professional performance Gold flash over

nickel plate. Other finishes available upon

request

Interfacial Seal: Thermoplastic Elastomer (TPE),

Santoprene™ or equivalent

Shells: Steel with tin plate; zinc plate, stainless steel

passivated. Other materials and finishes

available upon request.

Mounting Spacers and Brackets:

Nylon; copper alloy or steel with zinc plate or tin plate; phosphor bronze with tin plate;

stainless steel, passivated; polyester.

Push-On Fasteners: Phosphor bronze or beryllium copper with

tin plate.

Jackscrew Systems: Brass or steel with zinc plate or clear zinc plate or tin plate; stainless steel, passivated.

Vibration Lock Systems: Slide lock and lock tabs, steel with nickel

Hoods: Composite and plastic, UL 94V-0; brass or steel with zinc plate. Aluminum; aluminum

with electroless nickel plate. For aluminum hoods, zinc content is 1% maximum. Die

cast zinc.

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contact, male - 0.040 inch [1.02mm] mating diameter. Female contact - rugged

open entry design.

Contact Retention

In Insulator: 6 lbs. [27N]

500°F [260°C] for 10 seconds duration per IEC 60512-6. Resistance To Solder

Iron Heat:

Contact Solder cup contacts - 0.042 inch [1.06mm] Terminations: minimum hole diameter for 20 AWG [0.5mm²]

wire maximum.

Straight Printed Board Mount - 0.024 inch

[0.61mm] termination diameter.

Right Angle (90°) Printed Board Mount - 0.024 inch [0.61mm] termination diameter for European Metric Footprints.

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and polarized

iackscrews.

Mounting To Jackscrews and riveted fasteners with a **Angle Brackets:** 0.120 inch [3.05mm] clearance hole, and

threaded riveted fasteners with 4-40 threads and polyester lock inserts.

Mounting To Rapid installation push-on fasteners and

threaded posts.

Printed Board: **Locking Systems:** Jackscrews and vibration locking systems.

Mechanical Operations: 500 operations minimum per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 7.5 amperes nominal.

Initial Contact

Resistance: 0.008 ohms maximum.

Insulation Resistance: 5 G ohms. **Proof Voltage:** 1000 V r.m.s.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm]. Working Voltage: 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

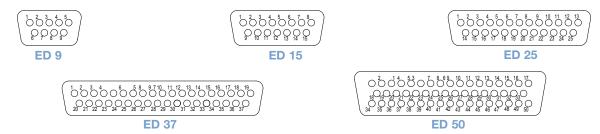
Temperature Range: -55°C to +125°C.

Damp Heat, Steady State: 10 days.

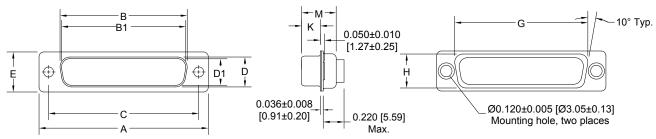


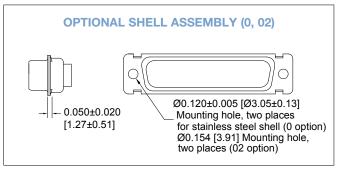
CONTACT VARIANTS

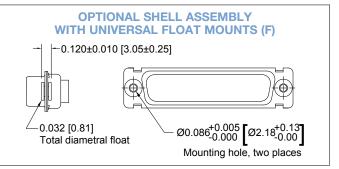
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD SHELL ASSEMBLY



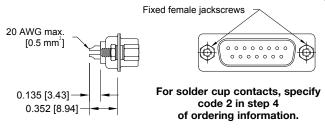




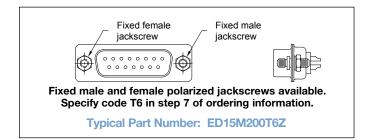
CONNECTOR VARIANT SIZES	A ±0.015 [0.38]	B ±0.005 [0.13]	B1 ±0.005 [0.13]	C ±0.005 [0.13]	D ±0.005 [0.13]	D1 ±0.005 [0.13]	E ±0.015 [0.38]	G ±0.010 [0.25]	H ±0.010 [0.25]	K ±0.005 [0.13]	M ±0.010 [0.25]
9 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9 F	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
15 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		0.329 [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
25 M	<u>2.088</u> [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	0.230 [5.84]	<u>0.426</u> [10.82]
25 F	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		0.329 [8.36]	<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	0.230 [5.84]	<u>0.426</u> [10.82]
37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	2.272 [57.71]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]
50 M	2.635 [66.93]		2.079 [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	0.230 [5.84]	<u>0.426</u> [10.82]
50 F	2.635 [66.93]	2.064 [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	2.178 [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]



SOLDER CUP TERMINATION CODE 2



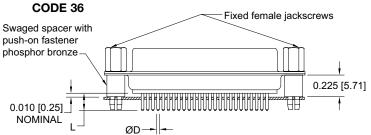




STRAIGHT PRINTED BOARD MOUNT TERMINATION

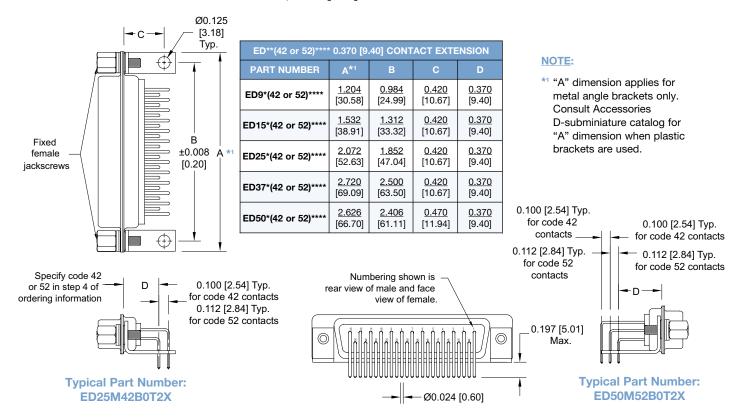
CODE NUMBER	L	ØD		
36	<u>0.236</u> [5.99]	<u>0.024</u> [0.61]		

For straight printed board mount contacts, specify code number in step 4 of ordering information.



Typical Part Number: ED25F36S60T0

RIGHT ANGLE (90°) PRINTED BOARD MOUNT TERMINATION CODE 42, 0.370 [9.40] CONTACT EXTENSION

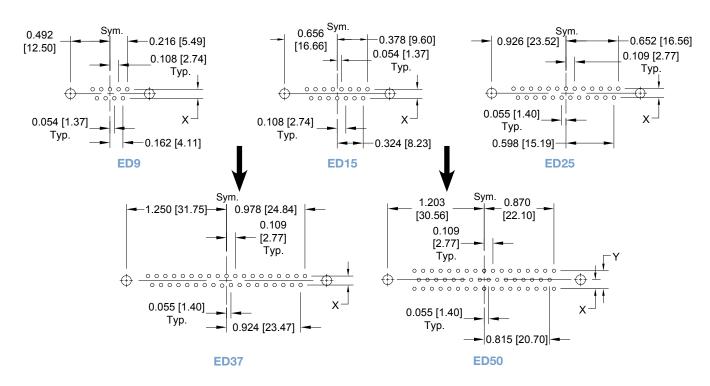




RIGHT ANGLE (90°) AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

FOR CODE 42, MOUNT CONNECTOR WITH MATING FACE POSITIONED TO FOLLOW DIRECTION OF ARROW.

Contact Technical Sales for hole dimensions using lead-free solder.



SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.040 [1.02] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12 \pm 0.08] Ø hole for mounting connector with push-on fasteners.

CODE NUMBER	Х	Y
36	0.112 [2.84]	0.224 [5.69]
42	0.100 [2.54]	0.200 [5.08]

SERIES

PROFESSIONAL QUALITY FIXED CONTACT STANDARD DENSITY D-SUBMINIATURE

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 8

OTED	_	2	3	4	5	6	7	8	9]	10	1
STEP			3	4	5	•	- /	•	9		10	
EXAMPLE	EXAMPLE ED 9		М	36	0	0	0	0	/AA		-14	
STEP 1 - BASIC SERIES ED series. STEP 2 - CONNECTOR VARIANTS										-14 - 0.0 nio	000030 [0 ckel. <i>CT TECH</i>	CIAL OPTIONS .76µ] gold over INICAL SALES
9, 15, 25 , 37, 50	TOIL VA	IIIAIIIO								FOR SF	PECIAL O	PTIONS
STEP 3 - CONNECTOR M - Male P - Male with interfar F - Female STEP 4 - CONTACTOR - Solder cup. 36 - Solder, straight [5.99] tail length 42 - Solder, right an 0.370 [9.40] con					0 - 2 S - 5 X - 1	/AA NOTE legisla not be 8 - Shel Zinc plated Stainless s Tin plated	- RoHS C :: If complition is not e used. Ex Il Option d.	ompliant iance to e t required, ample: EE s	environmental this step will 09M360000			
*1 STEP 5 - MOUN 0 - Mounting hole 02 - Mounting hole B - Bracket, mour B3 - Bracket, mour B6 - Bracket, mour F - Float mounts, P - Threaded pos P2 - Threaded pos R - Bracket, mour connector with R2 - Bracket, mour	s bar.		0 *3 V3 *3 V5 *3 VL T T2 T6 E2 E2	P 7 - L(- None. - Lock tak - Lock tek - Fixed fe - Fixed fe - Fixed m - Rotating - Rotating - Rotating	o, connector, connector, used male jack male jack ale and fe jack male jack male jack male jack male jack male scr	AND PC tor front p tor rear pa with Hood screws. screws. emale pola kscrews. ew locks. h internal	anel mount is only. hex for 3/	ited.				

- cross bar. Bracket, mounting, right angle (90°) metal, swaged to R3 connector with 0.120 [3.05] ø mounting hole.
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads. R4 -
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut.
- R6
- Bracket, mounting, right angle (90°) metal, swaged to connector with 0.120 [3.05] ø mounting hole with cross bar. Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads with cross bar.
- Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut with cross bar.
- Swaged spacer, 4-40 threads, 0.225 [5.71] length. Swaged spacer, 4-40 threads, 0.125 [3.18] length. Swaged locknut, 4-40 threads.
- S5
- Swaged spacer with push-on fastener,
- Swaged spacer with push-on fastener, 4-40 threads, 0.225 [5.71] length.
 Swaged spacer with push-on fastener for use with ferrite inductor, 4-40 threads, 0.375 [9.53] length.

*1 STEP 6 - HOODS AND PUSH-ON FASTENERS

- 0 None.
- J Hood, top opening, plastic.
- L Hood, side opening, plastic.

- L Hood, side opening, plastic.
 Y Hood, top opening, plastic with rotating male jackscrews. available in size 50 only.
 Y6 Hood, top opening, plastic with rotating male and female polarized jackscrews. Available in size 50 only.
 Z Hood, top or side opening, robust and extended height, composite and plastic with rotating male jackscrews. Available in size 9, 15, 25, 37, and 50 only.
 H Hood, top opening, metal, available in size 15, 25, 37, and
- H Hood, top opening, metal. available in size 15, 25, 37, and 50 only.
 G - Hood, EMI/RFI, die cast zinc. Available in size 9, 15, 25, 37,
- and 50 only.
- AN Lightweight aluminum hood, nickel finish.
- AL Lightweight aluminum hood, nickel finish, low-profile.
- W Hood, top or side opening, plastic. Available in size 9, 15, and 25 only.
- N Push-on Fastener, for right angle (90°) mounting brackets.
- *2 F Ferrite inductor.
- *2 Q Ferrite inductor for use with push-on fastener and right angle (90°) mounting brackets.

^{*1} For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

^{*2} Ferrite inductor is available on contact types 36 only. For more information on ferrite inductors, see page 7.

^{*3} VL, V3 and V5 locking systems are not available for connector variants 37 and 50. Jackscrews are highly recommended to minimize damage to contacts on variants with high mating forces.