

D*NG - Straight Pressfit Termination

See pages 4-5.

The D*NG is based upon the specification CECC75-301-802. These connectors provide a low-cost alternative to traditional through hole solder contacts. Utilizing stamped “Eye of the Needle” compliant contact tails per IEC-352-5, the parts are quickly and easily mounted onto PCBs without soldering, crimping or specialized tooling. The socket contact engaging area utilizes a “spoon” shape with four points of interconnection. Hardware options provide flexibility and ensure that the final product fits the electrical requirements of any application.

Product Features

Quick and easy press-in installation without specialized tooling
 “Spoon” socket contact provides improved interface compared to “Tuning Fork”
 Closed-entry socket for secure blind mating
 Front-shell only design based on CECC 75-301-802
 “Eye of the Needle” compliant contact tails
 Press-in bolt for ground continuity
 #4-40 UNC and M3 hardware options

D*M Straight Solder Termination (Machined) — Standard PC Tails

See pages 6-7.

D*M straight PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes) for printed circuit boards and backplanes in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

Product Features

7.5 A current capacity
 Machined contacts
 2 contact finishes
 Optional vertical standoffs, screw locks, and boardlocks (4 prongs)
 UL file number E8572
 Dimensionally compatible with Combo D®

ZD* - Straight Solder Termination (Stamped)

See pages 8-9.

ZD* straight connectors are available for applications where price is the primary driver. They are available with or without boardlocks and screw locks.

Product Features

Stamped contacts with 5 A current capacity
 Economical
 Optional vertical standoffs with optional harpoon style boardlocks or screw locks

D* - Straight Solder Termination (Machined) — European PC Tails

See pages 10-11.

D* straight connectors are available for high performance uses according to DIN 41652. Available with European length OL contacts.

Select contact finish from 2 performance classes.

Product Features

High performance commercial connectors
 Two contact finish performance classes
 Optional vertical standoffs, threaded inserts and pushfits/boardlocks
 OL2 contact length, other lengths available
 Tin plated contact PC tails (pin & socket)
 Machined contacts

D* - Wrap Post Termination

See pages 12-13.

D* straight connectors are available for high performance uses according to DIN 41652. Contacts available in two popular lengths.

Product Features

High performance commercial class connectors
 Two contact lengths for 2 or 3 wraps
 Machined contacts

Specifications

Current Rating	5 A / 25°C, 3.5 A / 70°C ambient
Temperature Rating	–55°C to 125°C
Contact Resistance	10 mΩ
Test Voltage	1200 Vrms at Sea Level
Ø Plated Through Hole	1,09 - 0,94 (.043 - .037)
PC Tail Press-in Force	100N/contact max.
PC Tail Push-out Force	30N/contact min.
PC Board Thickness	3,20 - 1,60 (.125 - .062)

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: black)
Contact	Copper Alloy	Gold over Nickel (Standard) or Gold over PdNi (-408)
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	–55°C to 125°C
Current Rating	7.5 A
Contact Resistance	55 millivolt max at 7.5 A test current
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Copper Alloy	Gold over Nickel. Terminating end Tin (Socket only)
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	–55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94-0	None (color: black)
Contacts	Copper Alloy	Gold over Nickel
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	–55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	–55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Socket: Copper Alloy	Gold over Nickel. Terminating end Tin (Socket)
Hardware	Steel/Copper Alloy	Tin/Zinc

Straight Solder Termination (Stamped)

Plug



Part Numbers

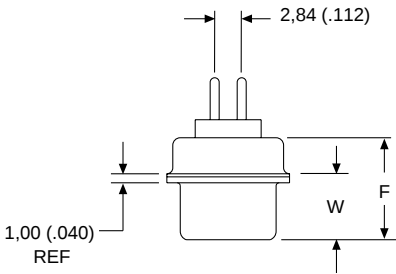
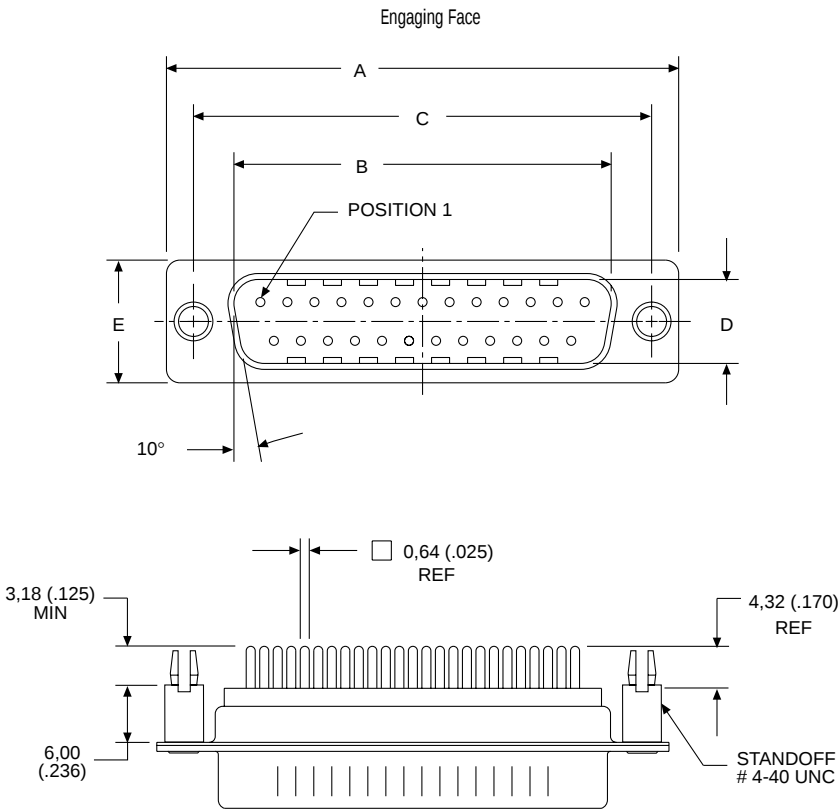
Shell Size	Layout	Through Hole	Standoff With Boardlock
DE	9	ZDE9P-OL2	ZDEE9P-OL2-146
DA	15	ZDA15P-OL2	ZDAE15P-OL2-146
DB	25	ZDB25P-OL2	ZDBE25P-OL2-146
DC	37	ZDC37P-OL2	ZDCE37P-OL2-146
DD	50	ZDD50P-OL2	ZDDE50P-OL2-146

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)

Straight Solder Termination (Stamped)

Receptacle



Part Numbers

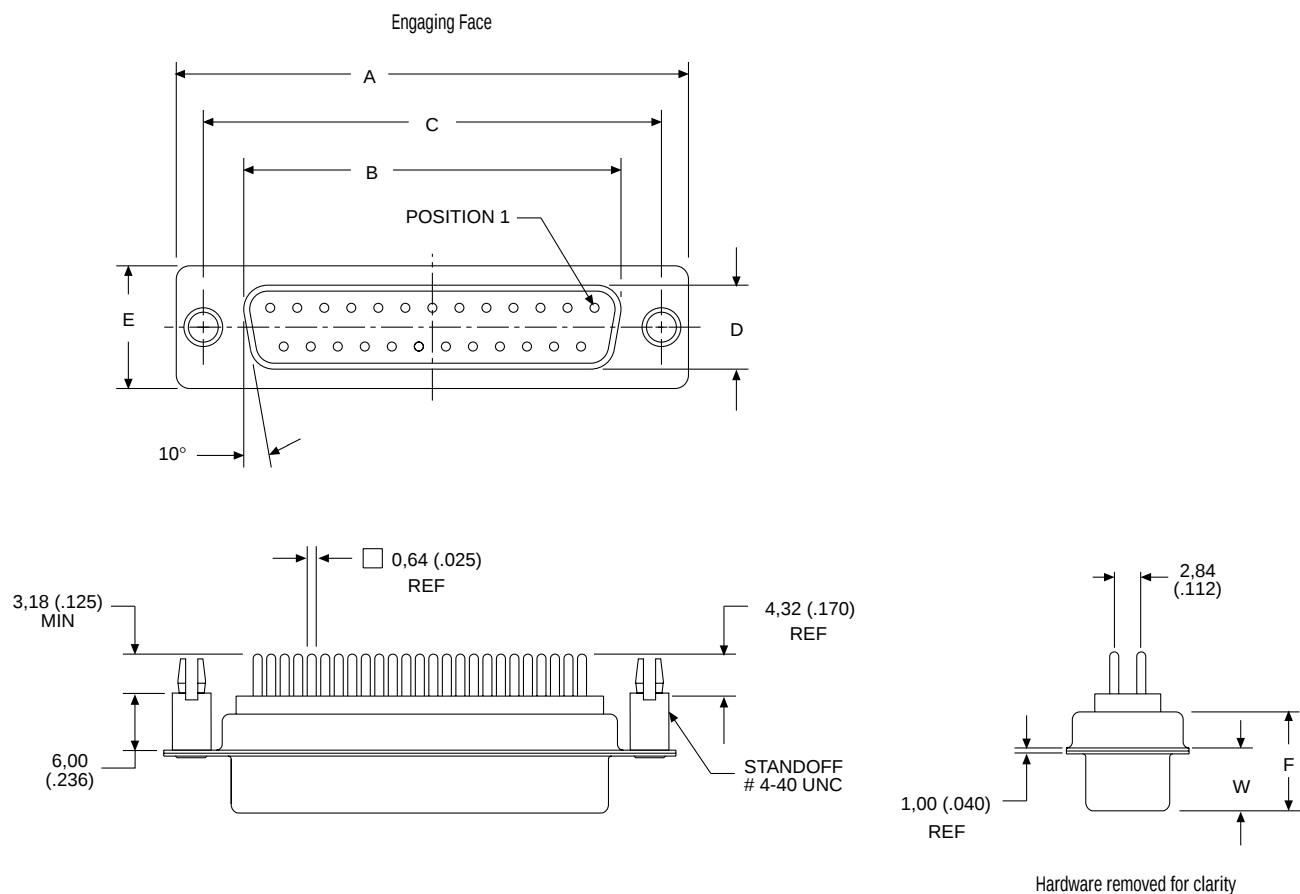
Shell Size	Layout	Through Hole	Standoff With Boardlock
DE	9	ZDE9S-OL2	ZDEE9S-OL2-146
DA	15	ZDA15S-OL2	ZDAE15S-OL2-146
DB	25	ZDB25S-OL2	ZDBE25S-OL2-146
DC	37	ZDC37S-OL2	ZDCE37S-OL2-146
DD	50	ZDD50S-OL2	ZDE50S-OL2-146

Selection Guide

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Materials and Finishes, see pages 2-3.

Reader's Resource

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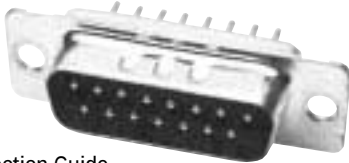


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)

Straight Solder Termination (Machined) — European PC Tails

Plug



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource

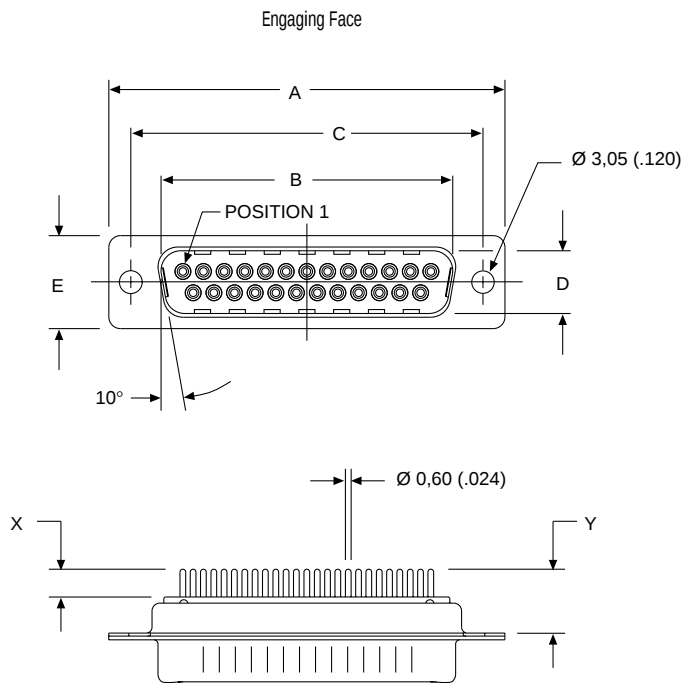
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

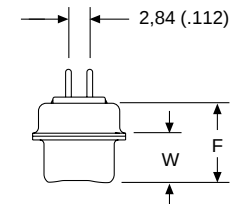
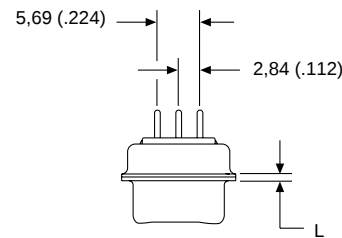
Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9P-0L2-K87	DEE9P-0L2-K87-146	DEX9P-0L2-K87-146
DA	15	DA15P-0L2-K87	DAE15P-0L2-K87-146	DAX15P-0L2-K87-146
DB	25	DB25P-0L2-K87	DBE25P-0L2-K87-146	DBX25P-0L2-K87-146
DC	37	DC37P-0L2-K87	DCE37P-0L2-K87-146	DCX37P-0L2-K87-146
DD	50	DD50P-0L2-K87	DDE50P-0L2-K87-146	DDX50P-0L2-K87-146

Note: For performance class 2 add -A191. Example DA15P-0L2-A191-K87.

PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
OL2	5,20 (.205)	10,20 (.401)
OL4	6,75 (.266)	11,80 (.465)



DD Configuration

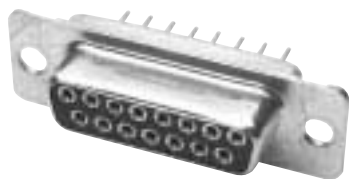


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Straight Solder Termination (Machined) — European PC Tails

Receptacle



Part Numbers

Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9S-0L2-A197	DEE9S-0L2-A197-146	DEX9S-0L2-A197-146
DA	15	DA15S-0L2-A197	DAE15S-0L2-A197-146	DAX15S-0L2-A197-146
DB	25	DB25S-0L2-A197	DBE25S-0L2-A197-146	DBX25S-0L2-A197-146
DC	37	DC37S-0L2-A197	DCE37S-0L2-A197-146	DCX37S-0L2-A197-146
DD	50	DD50S-0L2-A197	DDE50S-0L2-A197-146	DDX50S-0L2-A197-146

Selection Guide

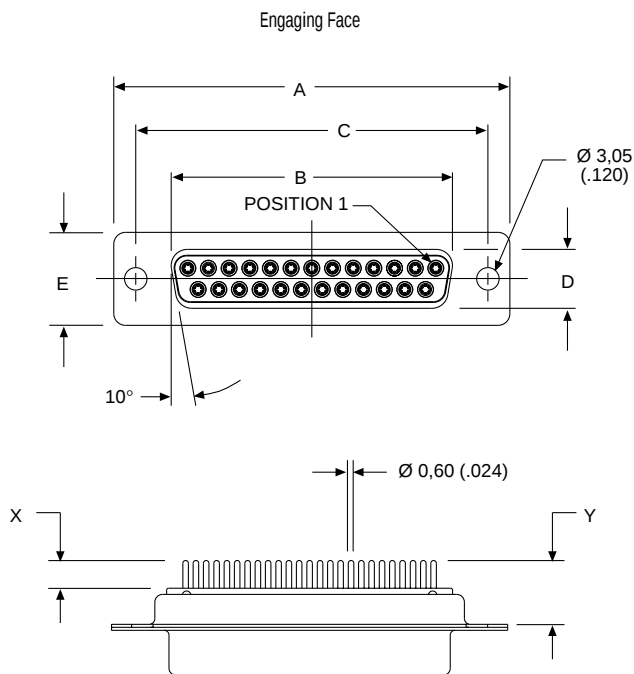
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Note: For performance class 2 add -A191. Example DA15S-0L2-A191-A197

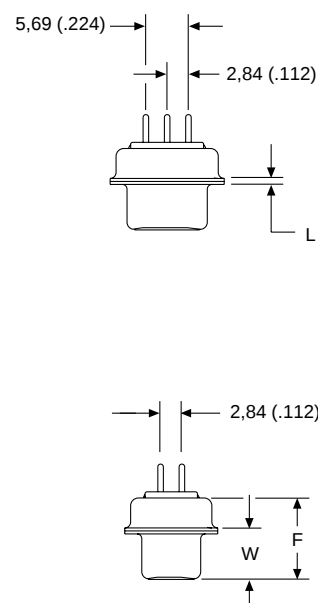
Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
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PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
OL2	5,20 (.205)	10,20 (.401)
OL4	6,75 (.266)	11,80 (.465)



DD Configuration

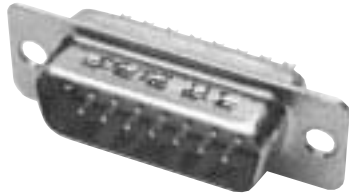


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Solder Cup Termination (Machined) with Tin Shells

Plug



Part Numbers

Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DE9PK87	DEE9PK87	DEX9PK87
DA	15	DA15PK87	DAE15PK87	DAX15PK87
DB	25	DB25PK87	DBE25PK87	DBX25PK87
DC	37	DC37PK87	DCE37PK87	DCX37PK87
DD	50	DD50PK87	DDE50PK87	DDX50PK87

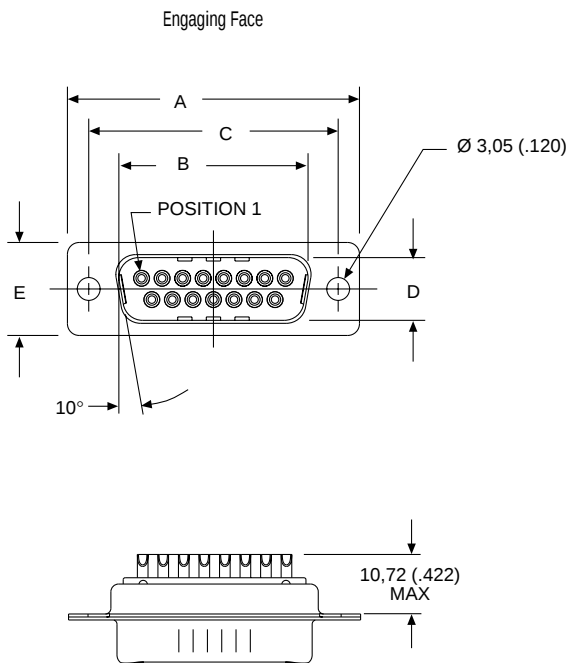
Selection Guide

For Product Features, Specifications,
Materials and Finishes, see pages 30-31.

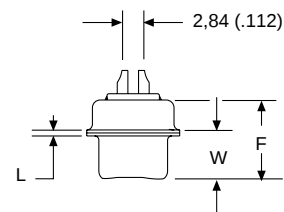
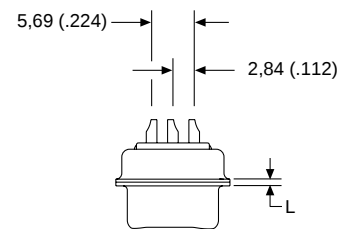
Note: For performance class 2, add A191. Example: DA15PA191K87.

Reader's Resource

For contact cavity arrangements,
see page 224.
For panel cutouts, see page 221.
For hardware views (European),
see page 227.



DD Configuration



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Solder Cup Termination (Machined) with Tin Shells

Receptacle



Part Numbers

Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DE9SA197	DEE9SA197	DEX9SA197
DA	15	DA15SA197	DAE15SA197	DAX15SA197
DB	25	DB25SA197	DBE25SA197	DBX25SA197
DC	37	DC37SA197	DCE37SA197	DCX37SA197
DD	50	DD50SA197	DDE50SA197	DDX50SA197

Selection Guide

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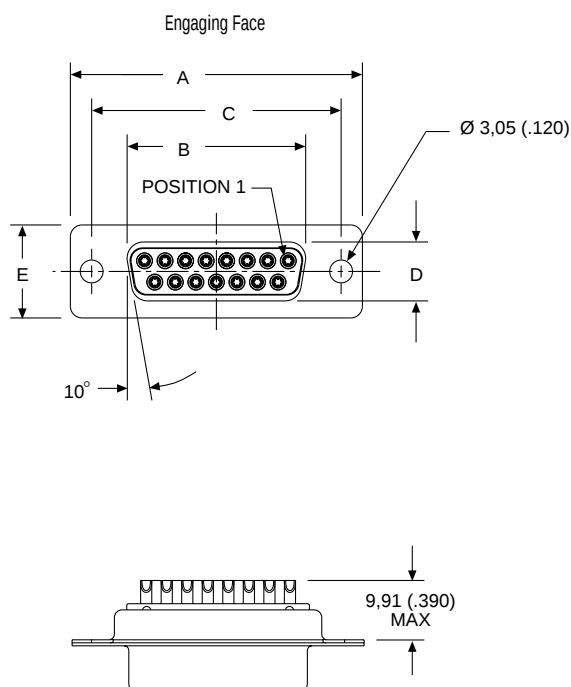
Note: For performance class 2, add A191. Example: DA15SA191A197.

Reader's Resource

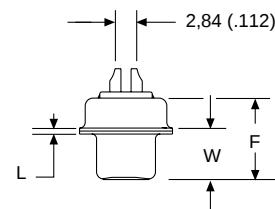
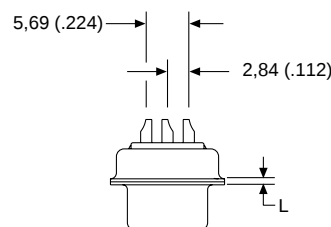
For contact cavity arrangements,
see page 224.

For panel cutouts, see page 221.

For hardware views (European),
see page 227.



DD Configuration



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D Subminiature

Part Number Index

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DDMMV36H4SN	161	DDMP36C4PJK87	46	DDMZ36C4SYA197	59	DE9S-1A9N-A197	23
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DDMMV36V4SN	165	DDMP36H4PJK87	62	DDMZ36H4PYK87	72	DE9S-1AFN-A197	23
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