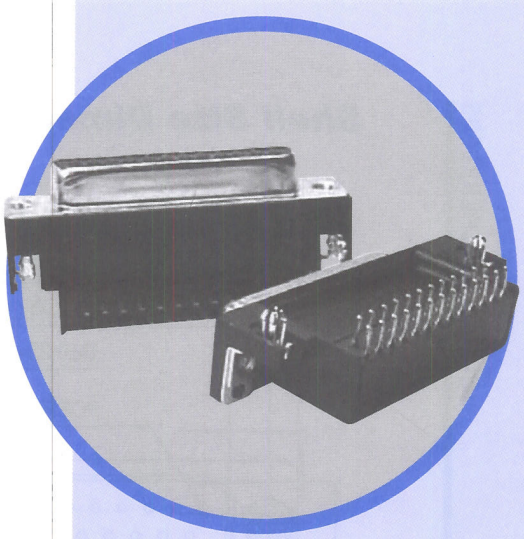
SD

D-Sub connectors - Stamped and Formed Contacts



RIGHT ANGLE BOARD MOUNT CONNECTORS FOOTPRINT 14.99 mm (.590")

CHARACTERISTICS

Specifications

- **UL File:** E119881
- Connectors according to MIL C24308

Materials and Platings	
Shells	Steel, bright tin over nickel plating
Insulator	Glass-filled thermoplastic, UL 94V-0
Pin contacts	Brass, selected gold in mating area; 2.54µm (100µ") min. tin on termination area over 1.27µm (50µ") min. nickel
Socket contact	Phosphor bronze, selected gold in mating area; 2.54µm (100µ") min. tin- on termination area over 1.27µm (50µ") min. nickel
Rear insert	Brass, 2.54µm (100µ") min. nickel plated
Screwlock	Brass, 2.54µm (100µ") min. nickel plated

Electrical Data	
Current rating	5A
Voltage rating	600V AC/rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	5000MΩ
Contact resistance	10mΩ max

Climatic Data	
Operating temperature	-55°C to +125°C
Salt Spray	24 hours

Mechanical Data

Mating and unmating force
Unit: kg (lb)

No. of Cts	Mate (max)	Unmate (min)
9 (size E)	3.05 (6.74)	0.36 (0.79)
15 (size A)	5.09 (11.24)	0.46 (1.01)
25 (size B)	8.44 (18.66)	0.81 (1.8)
37 (size C)	12.51 (27.65)	1.1 (2.47)

Standard plating thickness
- gold flash
- 0.4µm (15µ") gold
- 0.76 µm (30µ") gold

DESCRIPTION

The Amphenol "SD" series features precision formed contacts and 4 finger boardlocks.

This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

Economical right angle PCB mount connectors

APPLICATIONS

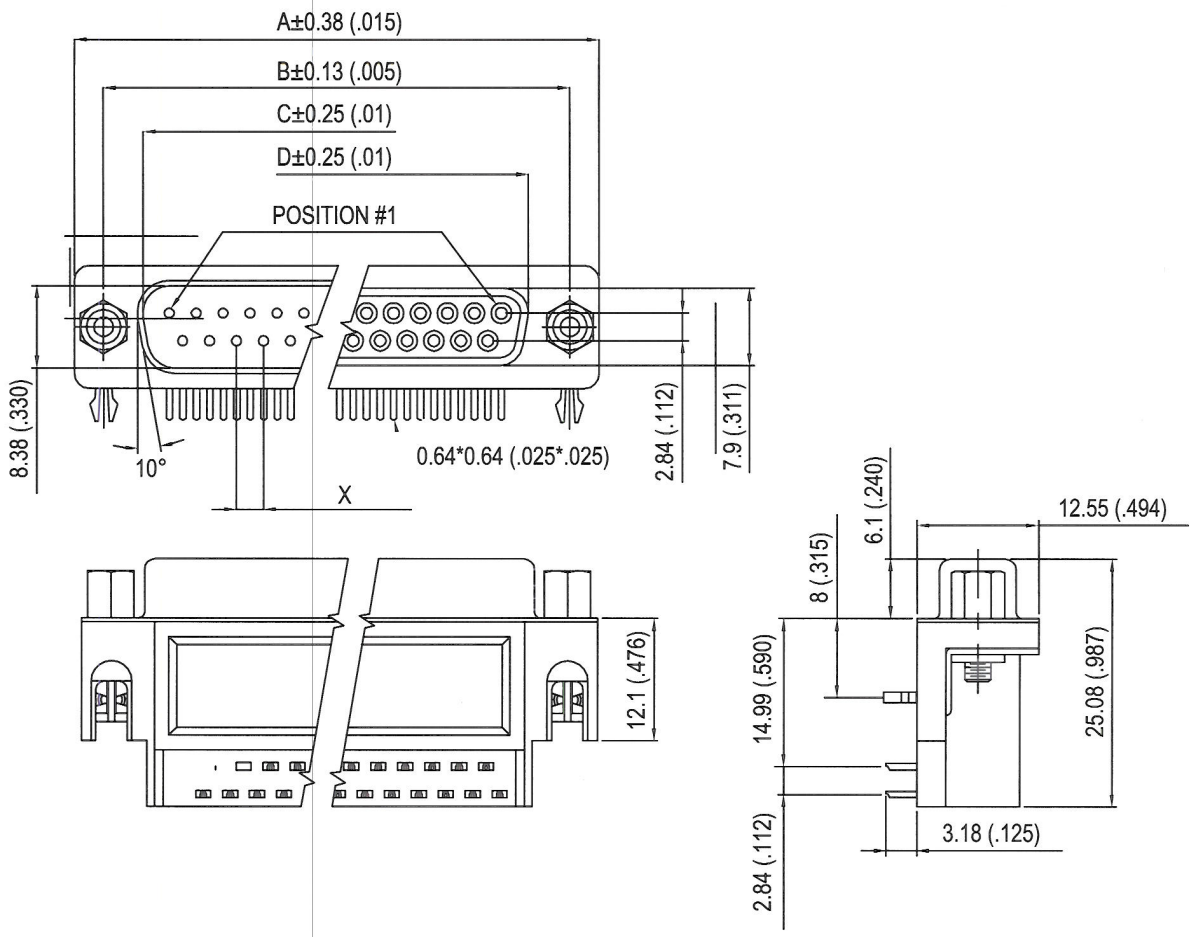
- Industrial
- Telecom
- Any industry standard I / O connections

SD / E8

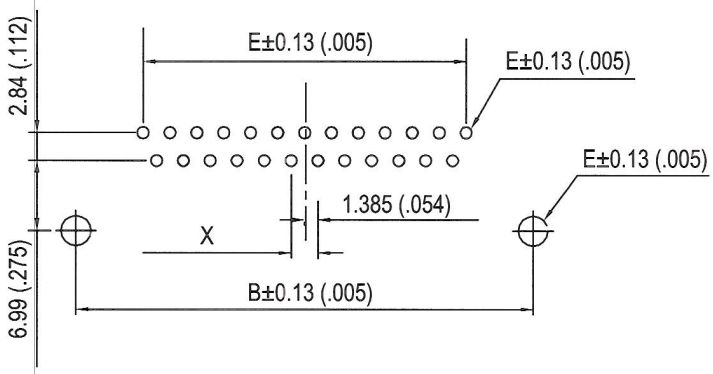
Amphenol RoHS Compliant EU 2002/95/EC

Amphenol

Shell Size Dimensions

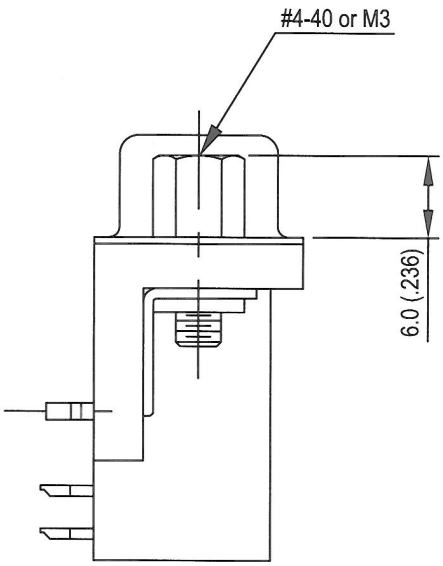


Recommended P.C.B.Layout

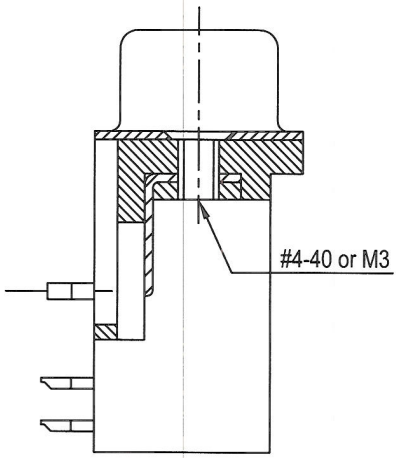


Nb OF CONTACTS	DIMENSIONS mm (inch)					
	A	B	C	D	E	X
9	30.84 (1.214)	24.99 (.984)	16.92 (.666)	16.26 (.640)	11.08 (.436)	2.74
15	39.24 (1.545)	33.32 (1.312)	25.25 (.994)	24.56 (.967)	19.39 (.763)	2.74
25	53.04 (2.088)	47.04 (1.852)	38.96 (1.534)	38.30 (1.508)	33.24 (1.309)	2.77
37	69.34 (2.730)	63.50 (2.500)	55.42 (2.182)	54.76 (2.156)	49.86 (1.963)	2.77

Panel mounting option



Front Female Screwlock
4F/3F



Threaded Rear Insert
4R/3R

How to order

L ... SD ... ... AB CH ...C309

RoHS Compliant

gold flash	77: tinned shell for receptable 717: tinned shell + dimples for plug
0.4µm (15µ")	177: tinned shell for receptable 777: tinned shell + dimples for plug

shell size: E, A, B, C

configuration: 09, 15, 25, 37

contact type:
P = pin
S = socket

plating option:
valid only for
0.76µm (30µ")
part numbers to be written as follow:
77SD.....C309
or
717SD.....C309

mounting options:
4F = front screwlock 4-40
3F = front screwlock M3
4R = rear insert 4-40
3R = rear insert M3

PCB locking type:
grounding tabs + boardlocks

footprint:14.99 mm (.590")

For special request, please consult factory

NOTES

Memo

Do not hesitate to contact us for further information

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Mouser Electronics

Authorized Distributor

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Amphenol:

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