2 Contact Row High Density Signal Connectors

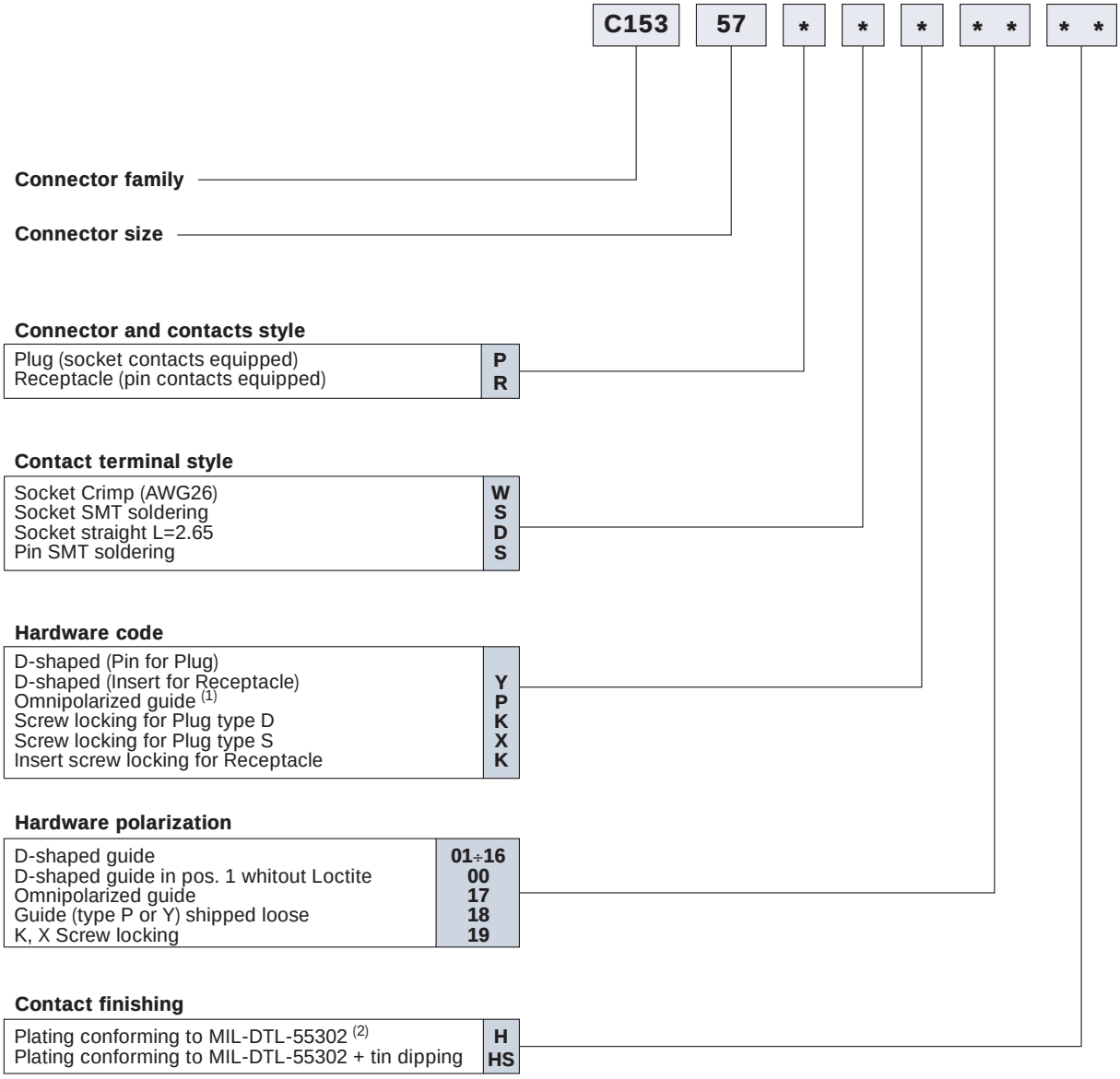
- Offset-grid contacts layout, two contact rows within dielectric connector body, 1.905 mm center-to-center contact spacing in each row and 1.651 row-to-row spacing.
- 0.5 mm nominal pin DIA contact size; 57 contact positions; dip solder, SMT soldering or wired contact termination types.
- High contact density and durability, low profile and light weight. High shock and vibration proof (no micro interruptions - test: 2ns).
- Conforms to MIL-DTL-55302.
- For military, test and burn-in systems for semiconductor industry.

Technical Characteristics

MATERIAL		
Body	PPS	MIL-M-24519
Contacts	Brass	ASTM B455
	CuBe	ASTM B197
	Phosphor-Bronze	ASTM B139
Hardware	Stainless steel	ASTM A582
FINISHES		
Contacts	Gold	ASTM B488
Hardware	Passivation	ASTM A967
MECHANICAL		
Mating/Unmating force	50g max	-
Contact life	30.000 insertion	-
ELECTRICAL		
Current rating [1]	2.0 A	-
Contact resistance	≤ 5.0 mΩ	-
Dielectric withstanding voltage	1000 VRMS, 60 Hz a.s.l.	-
Insulation resistance	≥ 5000 MΩ at 500 VDC	-
PHYSICAL AND ENVIROMENTAL		
Shock	-	In accordance with MIL-STD-1344
Vibration	-	In accordance with MIL-STD-1344
Operating range	-65°C +125°C	-

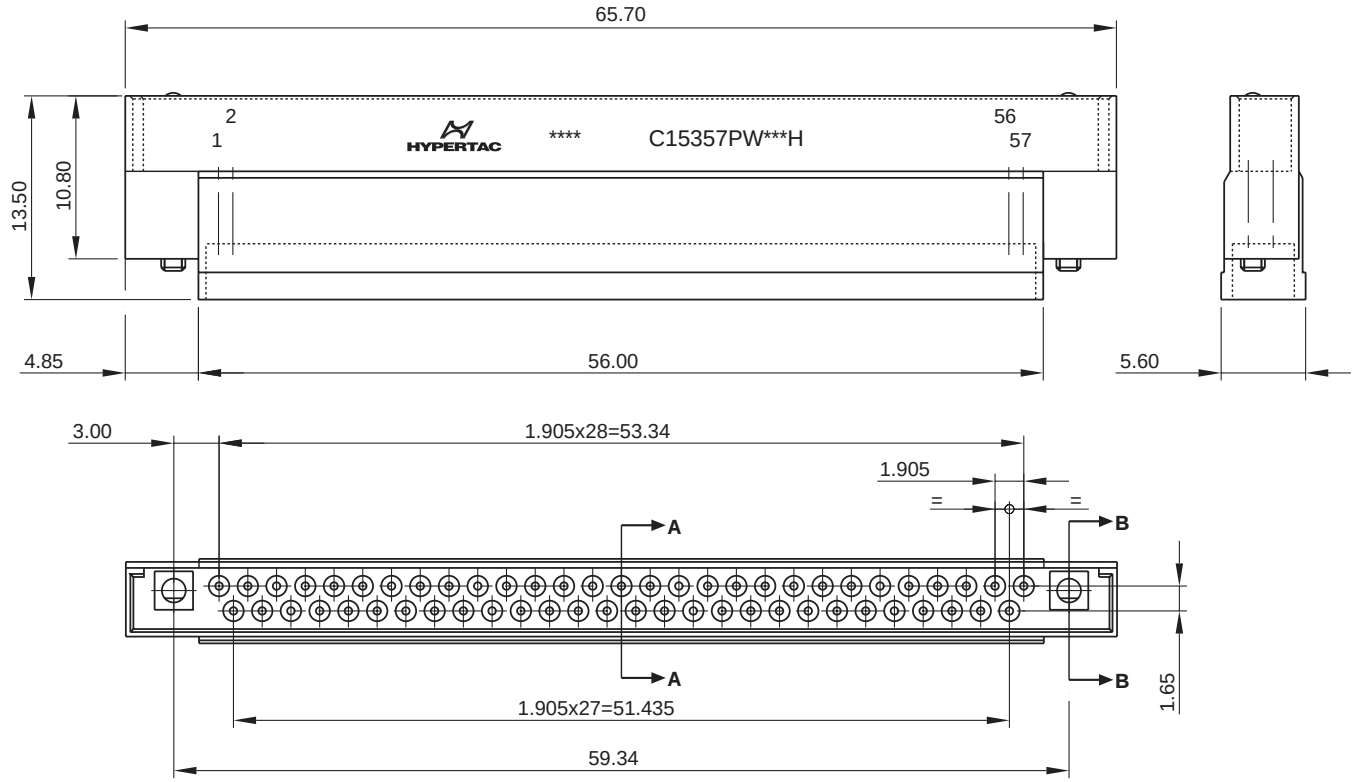
[1] Consult factory for details

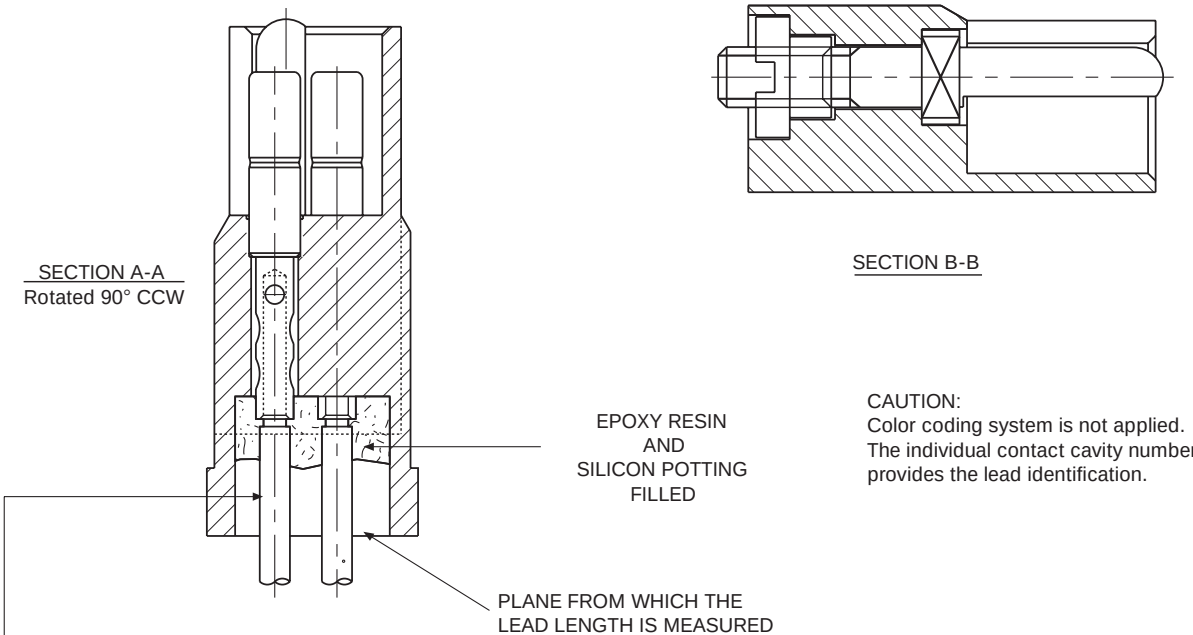
Ordering Information



(1) Receptacle body using thru hole
(2) This finishing is only for socket contacts crimp terminal style

Plug connector socket contact equipped, crimp termination style, lead attached





CAUTION:
Color coding system is not applied.
The individual contact cavity number provides the lead identification.

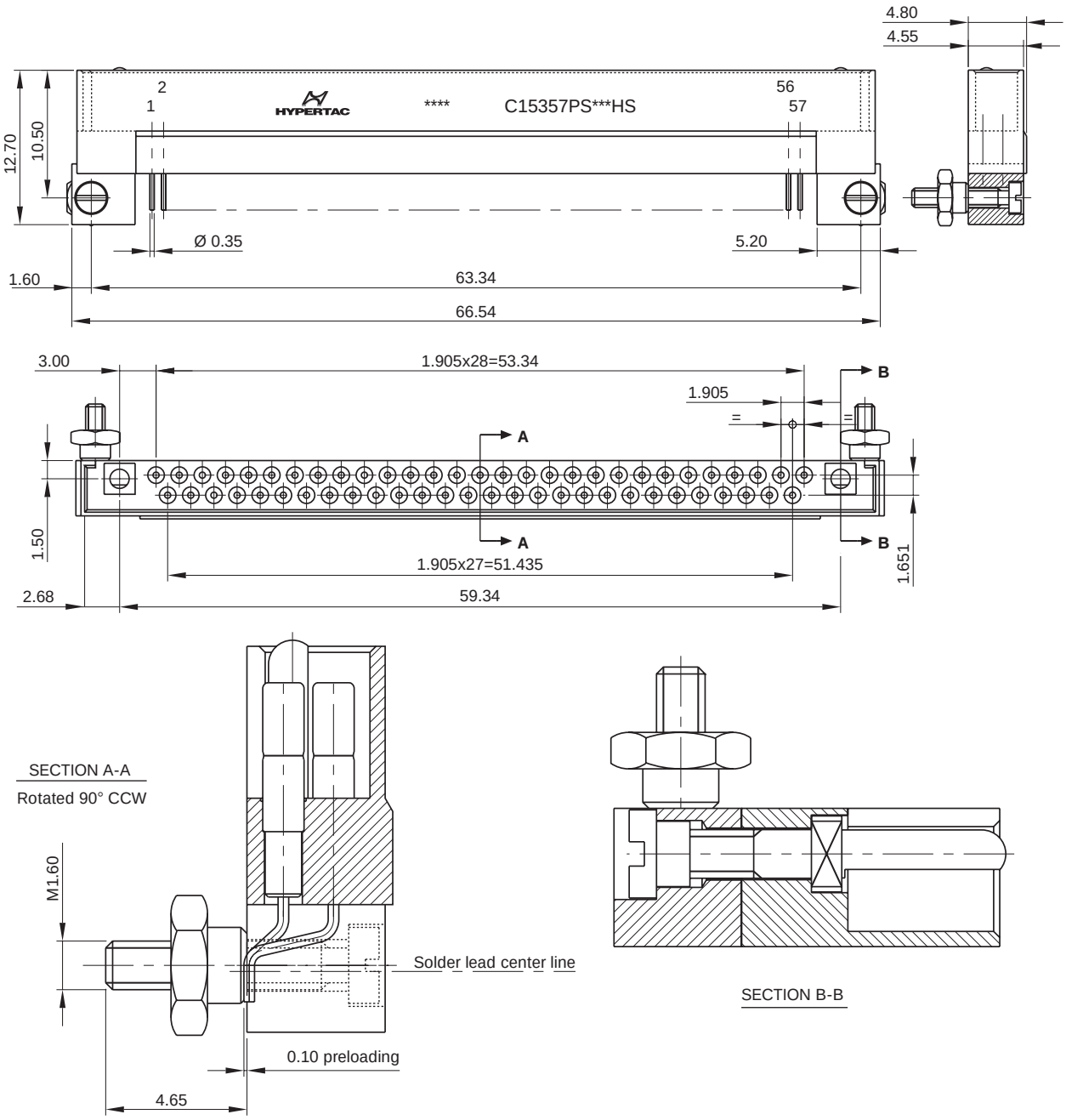
Wire per MIL-W-22759/19 - Wire, Electric, Fluoropolymer-Insulated, Extruded EFTE. Light Weight, Silver-Coated High Strength Copper Alloy Conductor, 600-Volt, 150°C.

Lead length= 2 ft; lead length tolerance +1.0, -0.0 in.

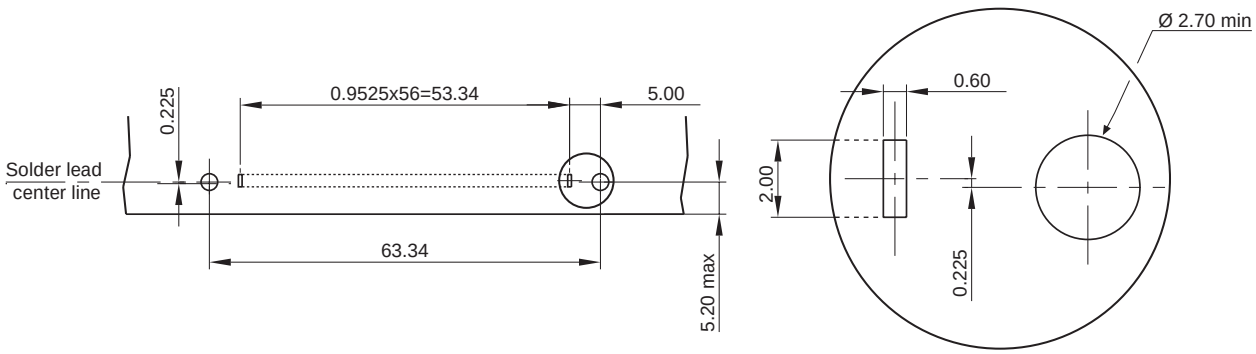
Umbilical connector for measuring and test equipments 57 socket contact positions,1.905 mm x 1.651 mm, offset grid, crimp contact terminal style, lead attached.

Dimensions are in mm

Plug connector socket contacts equipped surface mount tail termination style (SMT soldering)



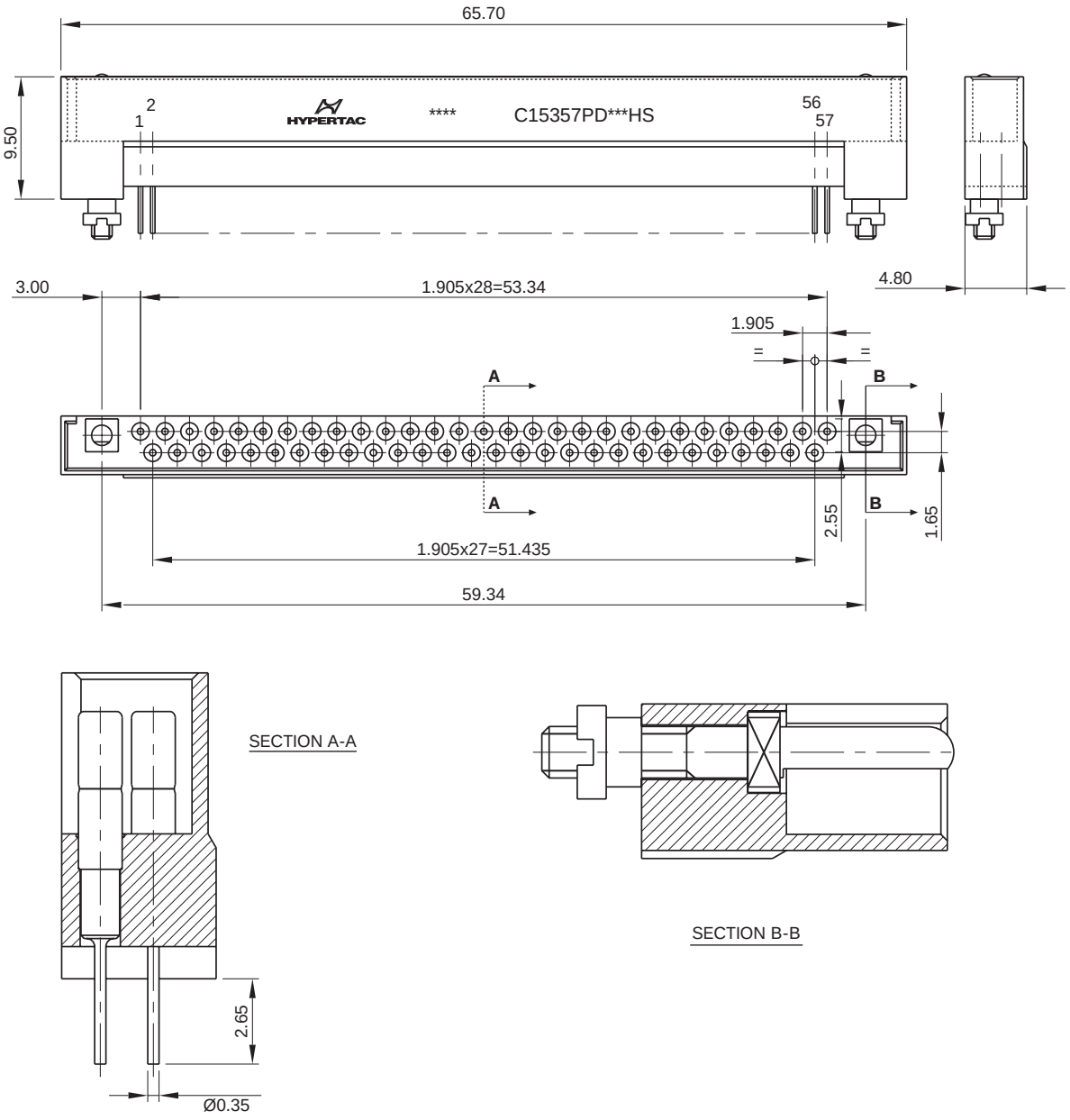
Card edge connector for measuring and test devices, (i.e. extender board applications), 57 socket contact position, 1.905 mm x 1.651 mm, offset grid, surface mount tail termination style (SMT soldering).



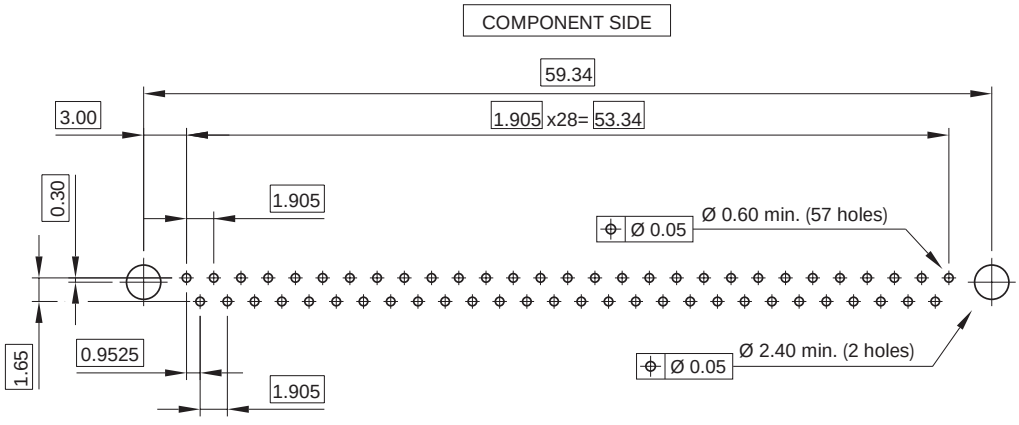
Mounting pattern, in line arrangement board-to-board connection

Dimensions are in mm

Plug connector socket contact equipped, dip solder contact termination style



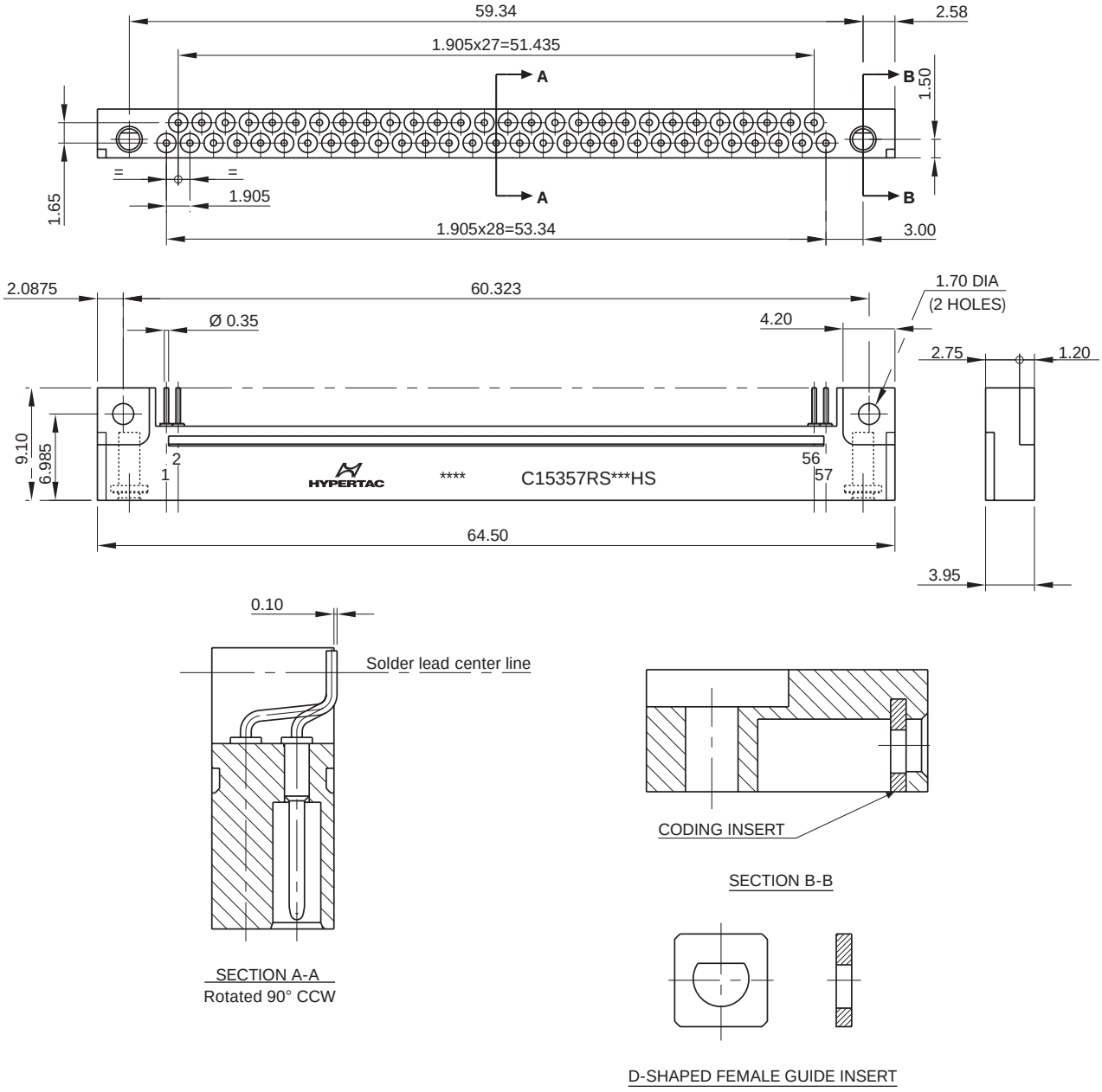
Plug connector 57 socket contact positions, 1.905 mm x 1.651 mm, offset grid, dip solder contact termination style for pcb 1.60÷2.20 max



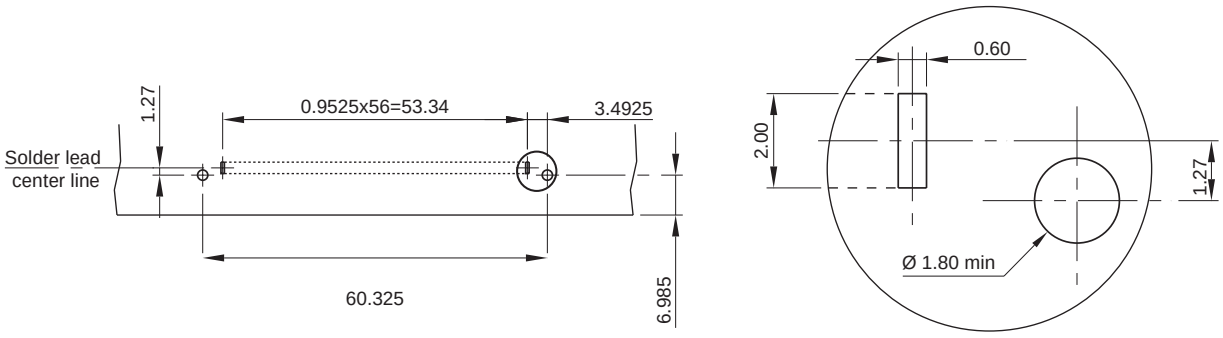
Mounting pattern, motherboard application (recommended PCB hole configuration)

Dimensions are in mm

Receptacle connector pin contacts equipped, surface mount tail termination style (SMT soldering)



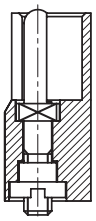
Card edge test connector, (added and wired on the PCB), 57 pin contact position, 1.905 mm x 1.651 mm, offset grid, surface mount tail termination style (SMT soldering).



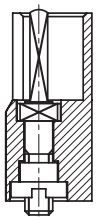
Mounting pattern, daughterboard application, or in line arrangement board-to-board connection.

Dimensions are in mm

Hardware code

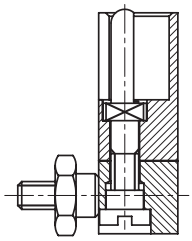


TYPE Y
- SPANNER WRENCH: ref. ord. 14613- 2
- POLARIZED MALE GUIDE:
  pos. 00: without loctite
  pos. 01÷16: with loctite 242 (blue)

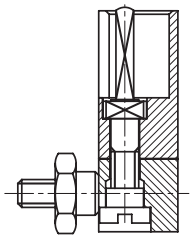


TYPE P
- OMNIPOLARIZED MALE GUIDE PIN:
  pos. 17: with loctite 242 (blue)

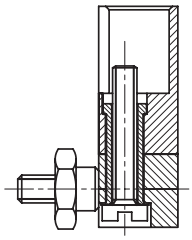
Hardware code for plug connector socket contacts equipped, crimp terminal style



TYPE Y
- SPANNER WRENCH: ref. ord. 14613- 2
- POLARIZED MALE GUIDE:
  pos. 00: without loctite
  pos. 01÷16: with loctite 242 (blue)
- SCREW 1.6M: without loctite

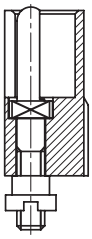


TYPE P
- OMNIPOLARIZED MALE GUIDE PIN:
  pos. 17: with loctite 242 (blue)
- SCREW 1.6M: without loctite

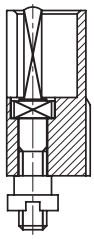


TYPE X
- SCREW LOCK

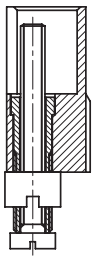
Hardware code for plug connector socket contacts equipped, surface mount tail terminal style



TYPE Y
- SPANNER WRENCH: ref. ord. 14613- 2
- POLARIZED MALE GUIDE:
  pos. 00: without loctite
  pos. 01÷16: with loctite 242 (bleu)
- SCREW 1.6M: without loctite

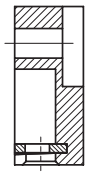


TYPE P
- OMNIPOLARIZED MALE GUIDE PIN:
  pos. 17: with loctite 242 (blue)
- SCREW 1.6M: without loctite

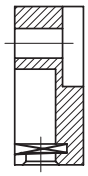


TYPE K
- SCREW LOCK
- SPANNER WRENCH: rif. ord. 19003

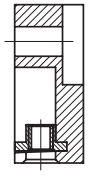
Hardware code for plug connector socket contacts equipped, dip solder terminal style



TYPE Y
- POLARIZED FEMALE GUIDE INSERT:
  pos. 01÷16: D- shaped female guide insert



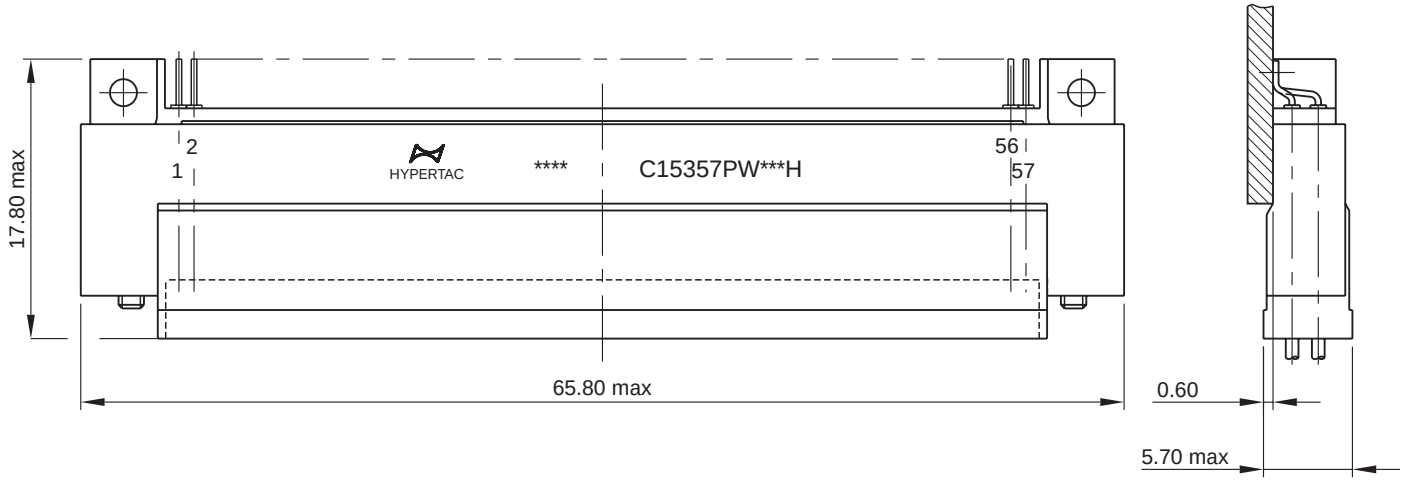
TYPE P
- OMNIPOLARIZED FEMALE GUIDE:
  pos. 17: round thru hole without
  D-shaped female guide insert



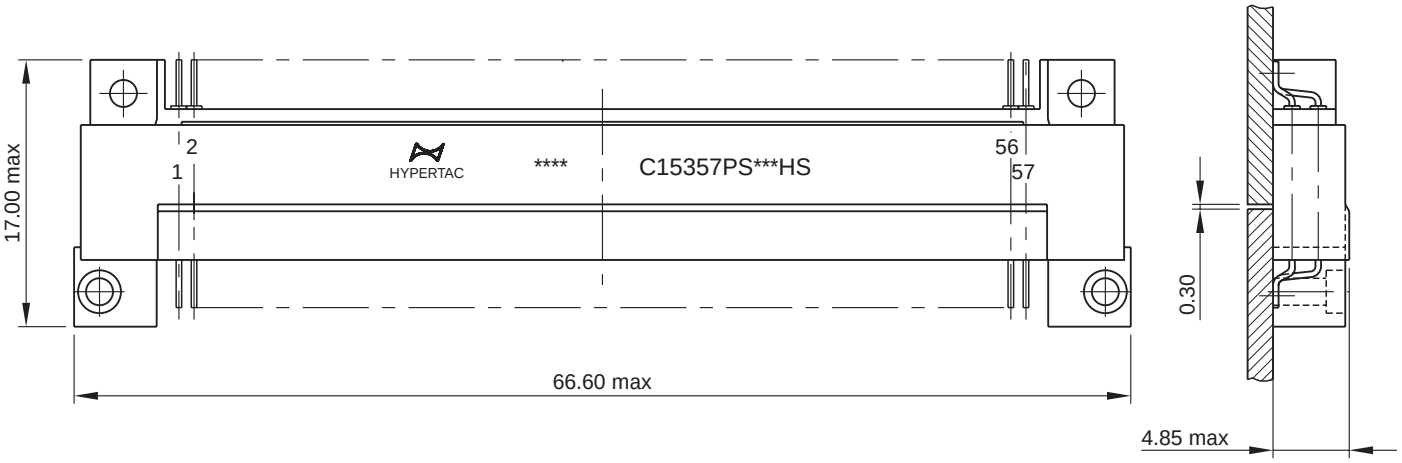
TYPE K
- SCREW LOCK

Hardware code for receptacle connector pin contacts equipped, surface mount tail terminal style

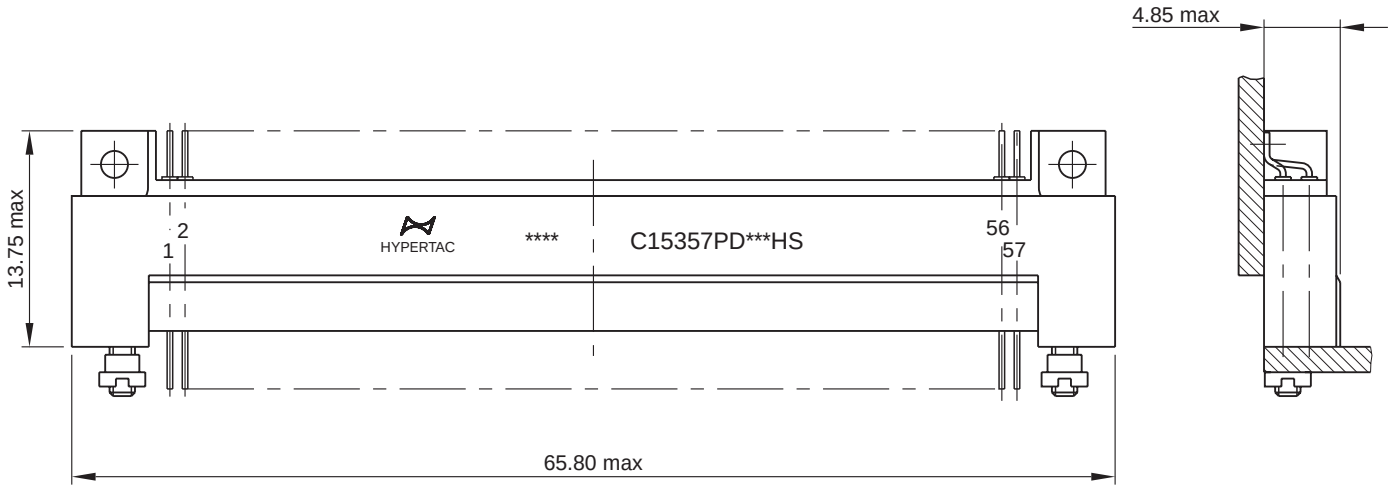
Maximum dimensions of mated connectors



Maximum dimensions of mated connectors: plug connector crimp terminals equipped, lead attached and receptacle connector, surface mount tail terminals equipped (SMT soldering).



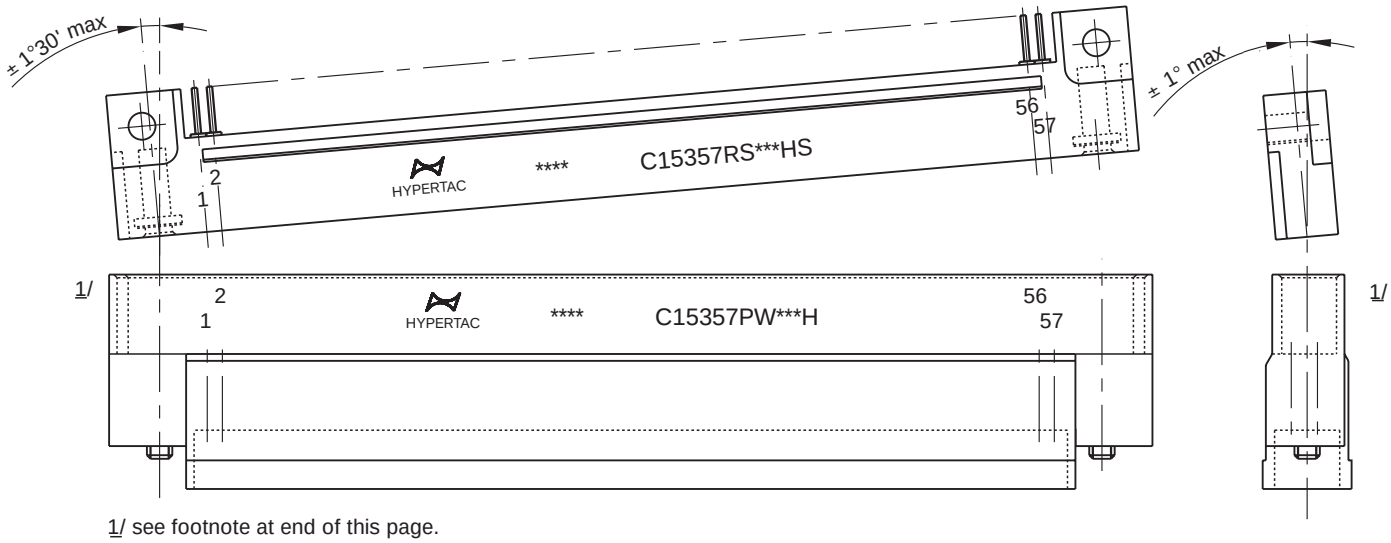
Maximum dimensions of mated connectors: plug and receptacle connectors surface mount tail terminals equipped (SMT soldering).



Maximum dimensions of mated connectors: plug connector, surface mount tail terminals equipped, and receptacle connector dip solder terminals equipped.

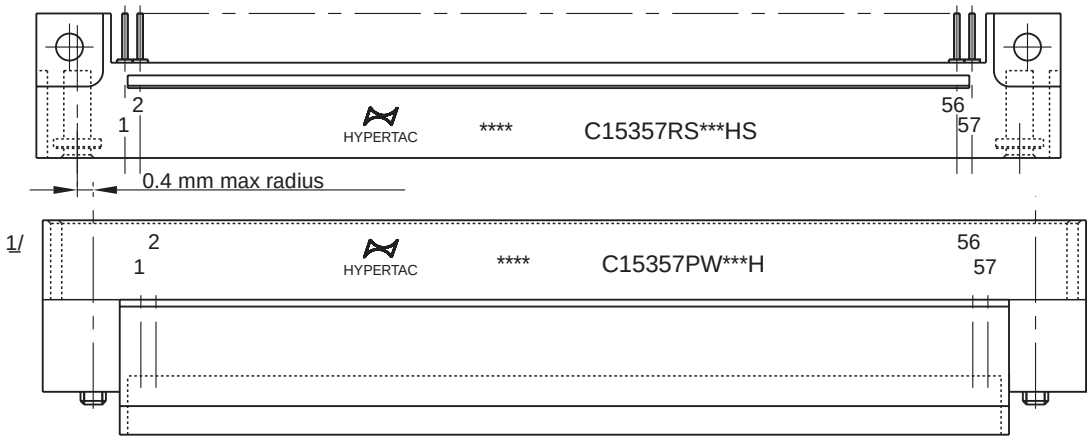
Dimensions are in mm

The connector halves mating



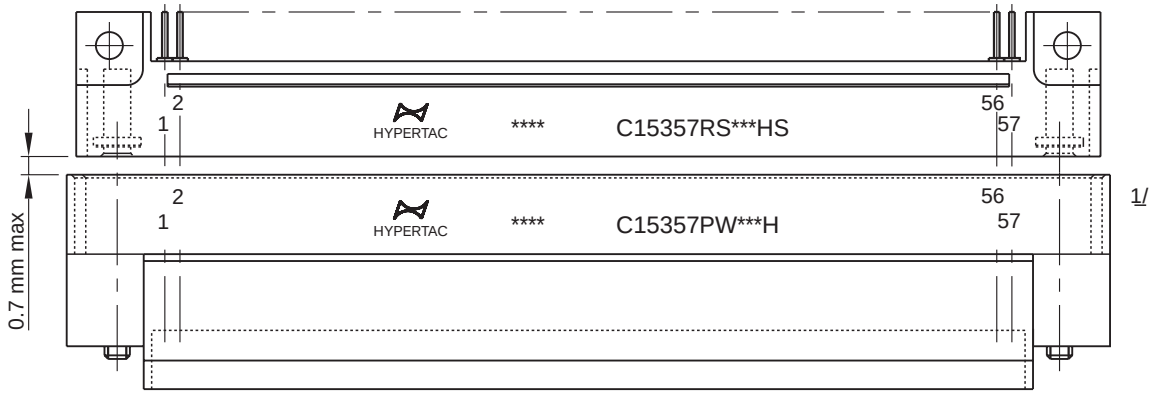
1/ see footnote at end of this page.

Maximum permissible inclination, in longitudinal and in trasversal axis, between the plug connector and the receptacle connector, in order to ensure the acceptable electrical engagement made by all contacts.



1/ see footnote at end of this page.

Maximum permissible displacement, between the plug connector and the receptacle connector, in order to ensure suitable fully insertion of the connector halves.



1/ see footnote at end of this page.

Maximum permissible separation distance, between the plug connector and the receptacle connector, in order to ensure the acceptable eletrical engagement made by all contacts.

1/ Value of these measures is applicable to plug connector equipped with crimp contact terminal style (lead attached) or equipped with surface mount tail contact terminal style (SMT soldering)

Dimensions are in mm