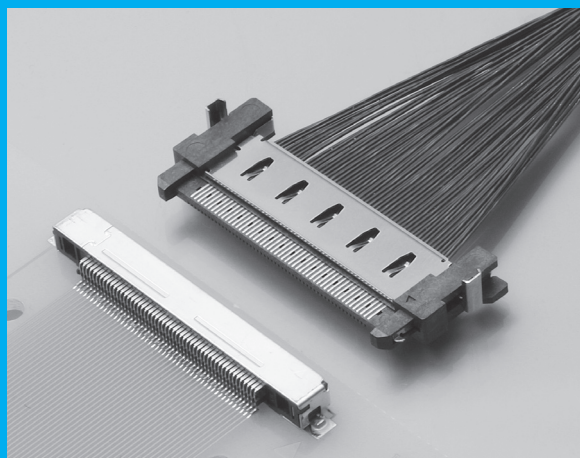


TMC SERIES

0.5mm PITCH CONNECTOR FOR MICRO COAXIAL CABLE / FOR HIGH-SPEED DIFFERENTIAL TRANSMISSION

RoHS
Compliant



FEATURES

- ▶ Applied for high speed differential transmission.(TMDS, LVDS)
- ▶ Provided with a soldered cable connection.
- ▶ For micro coaxial cable(#40 AWG).
- ▶ Equipped with a metal shell, noise reduction and product strength are ensured.
- ▶ Multiple ground terminals are provided for enhanced transmission characteristics and EMS protection.
- ▶ Highly reliable design with effective mating length of 1.0mm(0.039").
- ▶ Provided with a locking mechanism for secure locking and easy insertion/release.

*Additional common ground bar can be applied to provide a more stabilized transmission characteristic. Please contact your local KEL sales office.

ORDER CODE

TMC01-51

① ② ③ ④

*Please order in multiples of the quantity per package.

- ① **[Type]** TMC01 : Receptacle (PCB side connector)
- ② **[Number of contacts]** 51 : 51 pin
- ③ **[Contact tail style]** L : Right angle S : Straight
- ④ **[Number of packing]** A : 500pcs./1 reel B : 1000pcs./1 reel

ORDER CODE

TMC21-51-1

① ② ③

*Please order in multiples of the quantity per package.

- ① **[Type]** TMC21 : Plug (Cable side connector)
- ② **[Number of contacts]** 51 : 51 pin
- ③ **[Lock style]** 1

*Plug (cable side connector) is composed of base and shell.

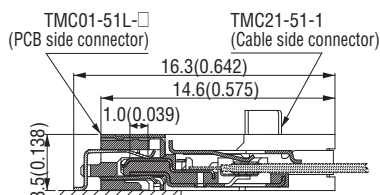
SPECIFICATIONS

Material and plating		Electrical characteristics	
Insulator material	Glass-filled LCP(UL94V-0),Black	Rated current	0.3A per contact
Contact material	Copper alloy	Contact resistance	50mΩ max.
Contact plating	Gold over Nickel	Dielectric withstanding voltage	200V AC for 1minute
Shell material	[TMC01/TMC21Base] Copper alloy	Insulation resistance	100MΩ min. at 250V DC
Shell plating	[TMC01/TMC21Base] Pure Tin over Nickel	Operating temperature	-40°C to +85°C
Plug upper shell material	[TMC21Cover] Stainless steel (No plating)	Applicable cable	#40 AWG Micro coaxial cables
Adsorption tape material	[TMC01 S type] Polyimide		

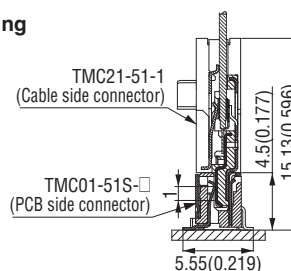
Mating drawing

Unit : mm(inch)

Horizontal mating



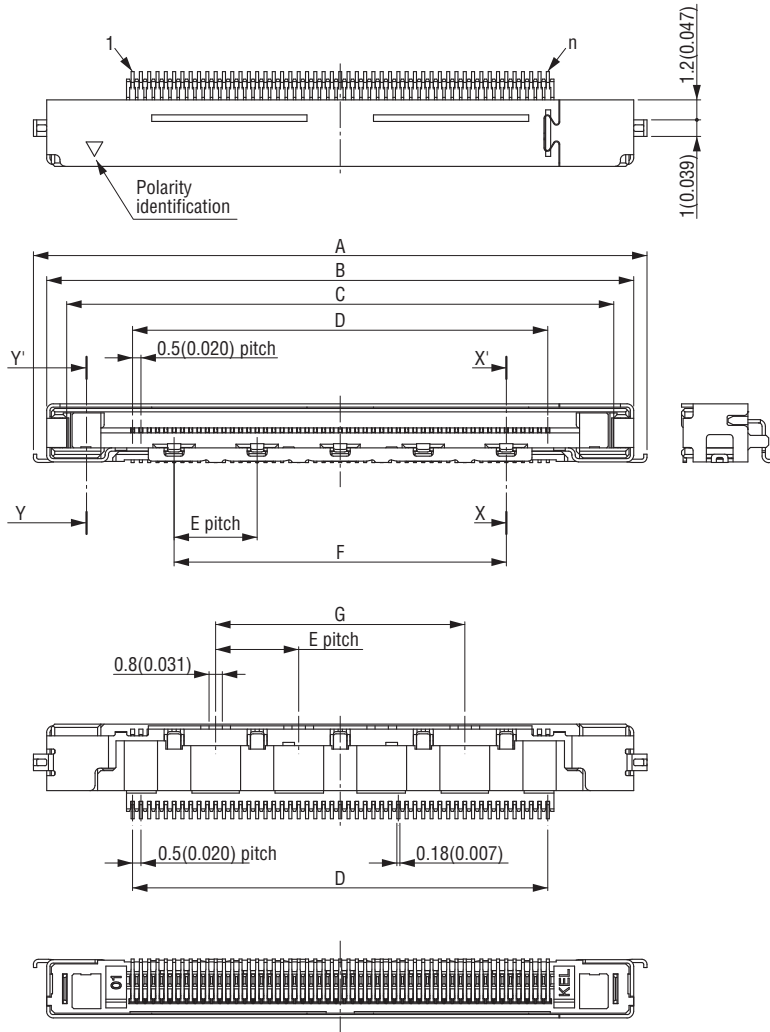
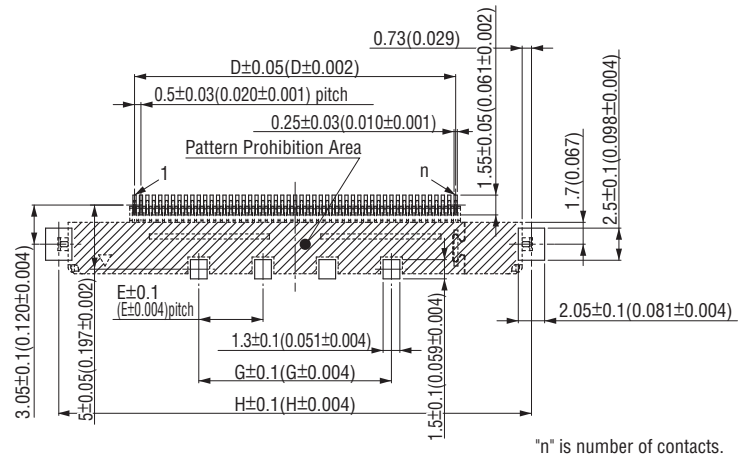
Vertical mating



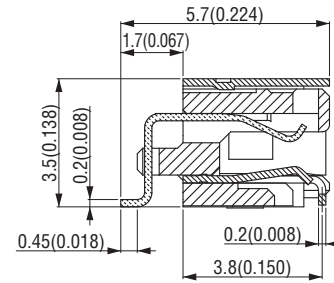
TMC01-51L-□ (Receptacle, PCB side connector, Right angle)

Unit : mm(inch)

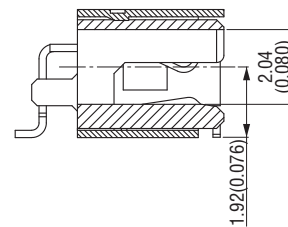
Printed Circuit Board layout (Component side view)



X-X' Cross section



Y-Y' Cross section



Packaging style
Embossed tape

Product table

Part number	Number of packaging
TMC01-51L-A	500
TMC01-51L-B	1,000

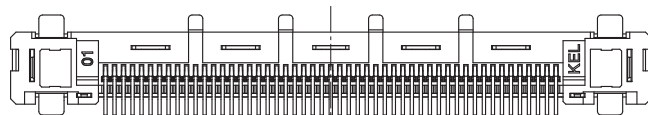
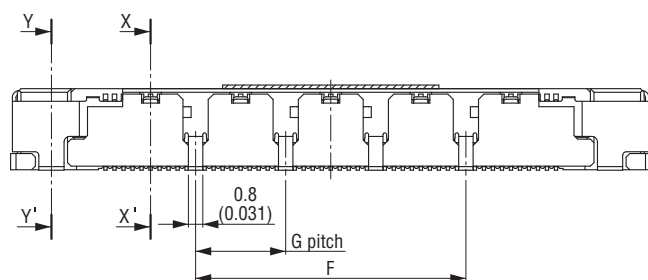
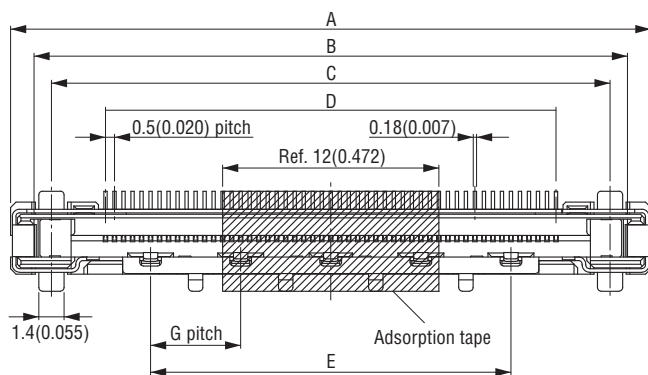
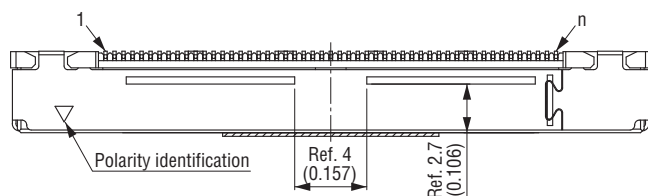
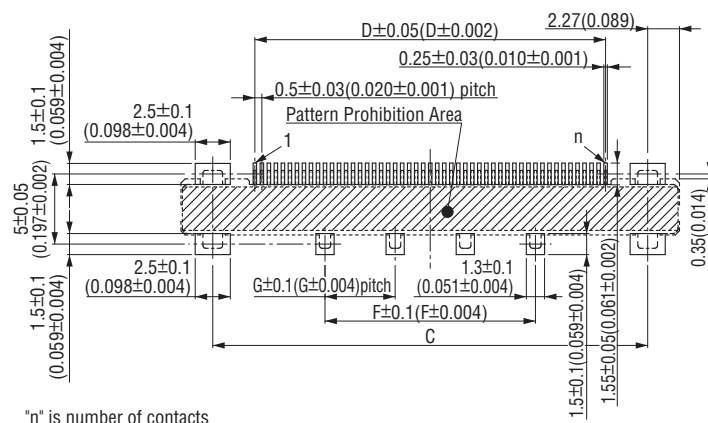
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	F	G	H
51	TMC01-51L-□	36.94 (1.454)	35.34 (1.391)	32.94 (1.297)	25 (0.984)	5 (0.197)	20 (0.787)	15 (0.591)	36.8 (1.449)

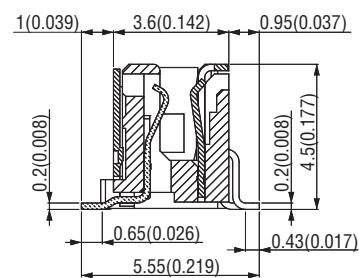
TMC01-51S-□ (Receptacle, PCB side connector, Straight)

Unit : mm(inch)

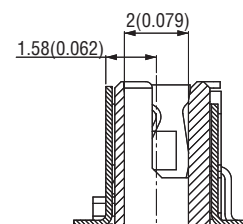
▶ Printed Circuit Board layout (Component side view)



X-X' Cross section



Y-Y' Cross section



Packaging style

Embossed tape

▶ Product table

Part number	Number of packaging
TMC01-51S-A	500
TMC01-51S-B	1,000

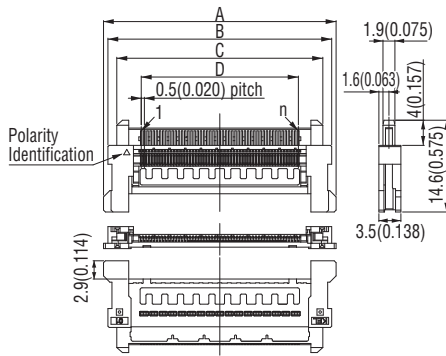
▶ Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	F	G
51	TMC01-51S-□	35.54 (1.399)	32.94 (1.297)	31 (1.220)	25 (0.984)	20 (0.787)	15 (0.591)	5 (0.197)

TMC21-51-1 (Plug, Cable side connector)

Unit : mm(inch)

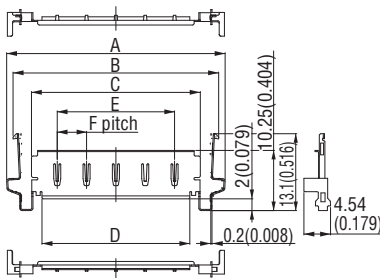
TMC21-51 Base



Product table

A	B	C	D
37 (1.457)	35.6 (1.402)	32.78 (1.291)	25 (0.984)

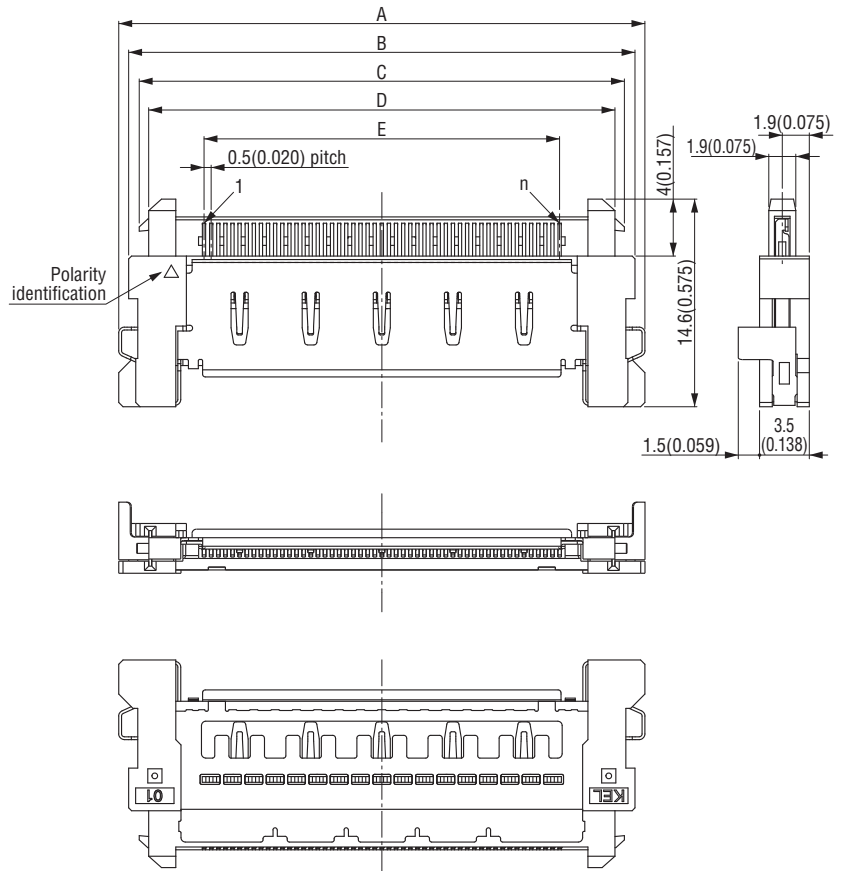
TMC21-51ShellP2-1



Product table

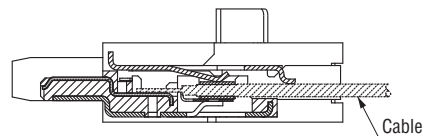
A	B	C	D	E	F
37.24 (1.466)	35.06 (1.380)	28.78 (1.133)	25.2 (0.992)	20.5 (0.807)	5 (0.197)

*TMC21-51 Base and TMC21-51ShellP2 are component parts of TMC21-51-1.



"n" is number of contacts

X-X' Cross section



Packaging style

Tray

Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	Number of packaging
51	TMC21-51-1	37 (1.457)	35.6 (1.402)	34.12 (1.343)	32.78 (1.291)	25 (0.984)	60