

5786676-1 ✓ ACTIVE

TE Internal #: 5786676-1

DIN Connectors, Circular DIN, Receptacle, Wire-to-Board, 6
Position, Selectively Loaded, Mating Alignment, Keyed Mating
Alignment Type

[View on TE.com >](#)



Connectors > Circular Connectors > DIN Connectors



Circular DIN Connector Type: **Circular DIN**

Connector & Housing Type: **Receptacle**

Connector System: **Wire-to-Board**

Number of Positions: **6**

Connector Contact Load Condition: **Selectively Loaded**

Features

Product Type Features

ESD Protection	Without
Circular DIN Connector Type	Circular DIN
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Shielded	Yes
Strain Relief	With
Connector Type	Header
Shape	Circular
Wire/Cable Type	Discrete Wire
Product Type	Connector

Configuration Features

Stacked	No
Number of Positions	6



Connector Contact Load Condition	Selectively Loaded
----------------------------------	--------------------

PCB Mount Orientation	Right Angle
-----------------------	-------------

Electrical Characteristics

Hot Pluggable	No
---------------	----

Operating Voltage	250 VAC
-------------------	---------

Body Features

Shield Underplate Material	Nickel
----------------------------	--------

Shield Plating Thickness	2.54 μm [100 μin]
--------------------------	--

Shield Underplate Thickness	1.27 μm [50 μin]
-----------------------------	---

Shield Material	Brass
-----------------	-------

Shield Plating Material	Tin
-------------------------	-----

Contact Features

Contact Layout	Staggered
----------------	-----------

Reverse Gender	No
----------------	----

Contact Base Material	Brass
-----------------------	-------

Contact Current Rating (Max)	7.5 A
------------------------------	-------

Contact Design	Tuning Fork
----------------	-------------

Contact Type	Socket
--------------	--------

Contact Termination Area Plating Thickness	2.54 μm [100 μin]
--	--

Contact Termination Area Plating Material	Tin
---	-----

Contact Transmits (Typical)	Power, Signal (Data), Signal (Data)/Power
-----------------------------	---

Contact Mating Area Plating Thickness	2.54 μm [100 μin]
---------------------------------------	--

Contact Mating Area Plating Material	Tin
--------------------------------------	-----

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
---	-----------------------

Mechanical Attachment

PCB Mount Alignment Type	Solder Tail Layout
--------------------------	--------------------

PCB Mount Alignment	With
---------------------	------

Panel Mount Feature	Without
---------------------	---------

Mating Alignment	With
------------------	------

Mating Alignment Type	Keyed
-----------------------	-------

PCB Mount Retention	With
---------------------	------



PCB Mount Retention Type	Kinked Legs
Connector Mounting Type	Board Mount
Mating Retention	Without

Housing Features

Centerline (Pitch)	2.49 mm[.1 in]
Housing Color	Black
Housing Material	Nylon

Dimensions

Width	21.84 mm[.86 in]
Length	15.75 mm[.62 in]
PCB Thickness (Recommended)	2.36 mm
Tail Length	3.56 mm[.14 in]
Height	20.83 mm[.824 in]

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
-----------------------------	----------------------------

Operation/Application

Circuit Application	Signal
---------------------	--------

Industry Standards

UL Rating	Recognized
CSA File Number	LR 3507
VDE Tested	No
Agency/Standard	CSA, UL
UL File Number	E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	180
Packaging Method	Package

Other

Comment	For applications requiring a 3-position connector, use a 5-position connector (contact positions 4 and 5 not used).
---------	---

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



Documents

Product Drawings

[6 CIRC DIN RCPT W/GRND FINGERS](#)

English

CAD Files

[Customer View Model](#)

[ENG_CVM_5786676-1_O1.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_5786676-1_O1.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_5786676-1_O1.2d_dxf.zip](#)

English

3D PDF

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

Agency Approval Document

English