2-2456589-0 ✔ ACTIVE

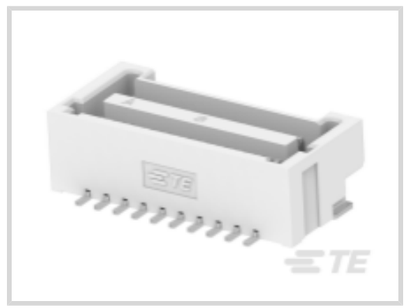
GRACE INERTIA | GRACE INERTIA 1.25

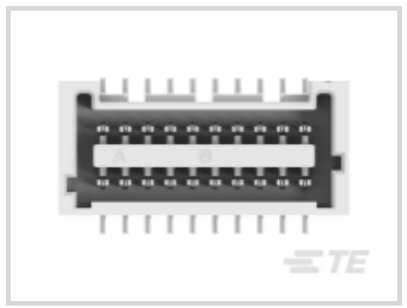
TE Internal #: 2-2456589-0

PCB Mount Header, Vertical, Wire-to-Board, 20 Position, 1.25 mm [.05 in] Centerline, Fully Shrouded, Tin (Sn), Surface Mount, GRACE INERTIA 1.25

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles





PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Number of Rows: **2**

Features

Product Type Features

Applied Pressure	Standard
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Loaded Positions	20
Number of Signal Positions	20
Number of Power Positions	0
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	20

Number of Rows	2

Electrical Characteristics

Operating Voltage	50 VAC
Insulation Resistance	500 MΩ
Dielectric Withstanding Voltage (Max)	500 V

Body Features

Connector & Keying Code	A
Connector Profile	Low
Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material Finish	Matte
Contact Fabrication	Stamped & Formed
Contact Mating Area Plating Material Thickness	1 µm[40 µin]
Mating Tab Width	.45 mm
Contact Shape & Form	SMT Lead
Contact Layout	Inline
Contact Base Material	Copper Alloy
Mating Tab Thickness	.3 mm
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Blade
Contact Current Rating (Max)	1.5 A

Termination Features

Termination Method to PCB	Surface Mount

Mechanical Attachment

Mating Retention	With
PCB Mount Retention Type	Pegs
PCB Mount Alignment Type	Pegs
PCB Mount Retention	With
PCB Mount Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	Nylon
Centerline (Pitch)	1.25 mm[.05 in]

Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Assembly Process Feature	Carrier Tape
Shielded	No
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tape & Reel

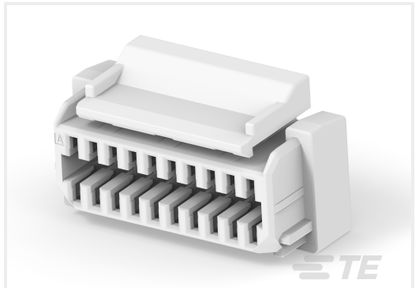
Product Compliance

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

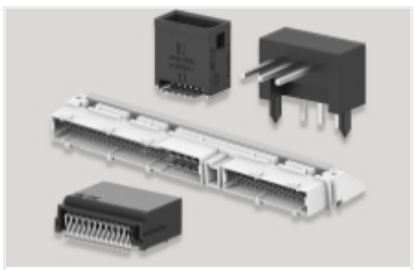
Compatible Parts



TE Part # 2-2456588-0
Plug HSG, VT, KeyA, 20pos, SGI 1.25

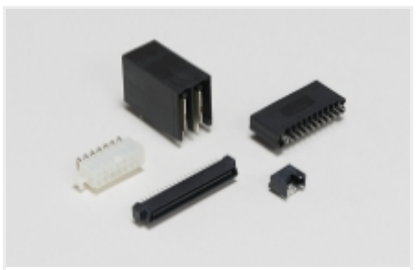
Also in the Series | GRACE INERTIA 1.25

Connector Contacts(2)



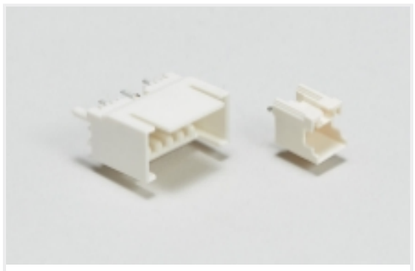
PCB Headers & Receptacles(76)

Rectangular Connector Housings(2)



Standard Rectangular Connectors(2)

Wire-to-Board Connector Assemblies & Housings(42)

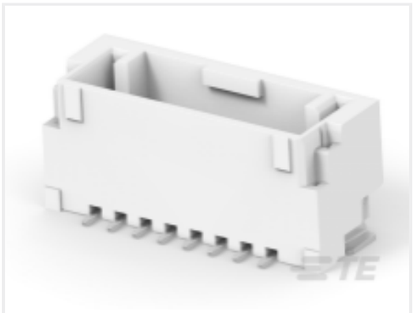


Wire-to-Board Headers & Receptacles (76)

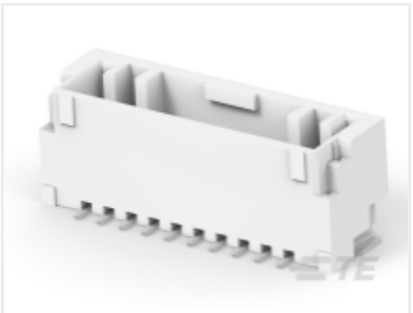
Customers Also Bought

TE Part #5-292230-7
1.5 MINI CT SGL V SMT W/BOSS 7

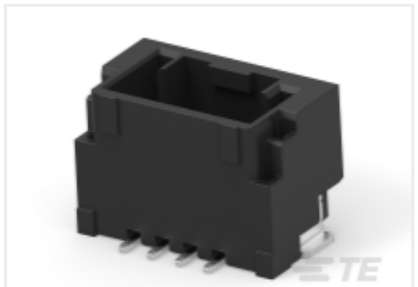
TE Part #5-1744103-2
EP HDR ASSY 2P,black



TE Part #2360540-8
SGI 1.25 HDR, 8P, VT, Key A, Natural



TE Part #1-2360540-0
SGI 1.25 HDR, 10P, VT, Key A, Natural



TE Part #2-2360540-4
SGI 1.25 HDR, 4P, VT, Key B, Black

TE Part #2367943-8
GI2.0EV VT SMT Poting HDR,NTL,Key A,8P

TE Part #2-2367943-3
GI2.0EV VT SMT Poting HDR,BLU,Key C,3P

TE Part #3-2367943-4
GI2.0EV VT SMT Poting HDR,YLW,Key D,4P

TE Part #2-1744103-2
EP HDR ASSY 2P,yellow

TE Part #1-1744105-4
EP HDR ASSY 5P omit 2&4,natural

Documents

Product Drawings

Header Assy, 20pos, VT, KeyA, SGI 1.25

English

CAD Files

Customer View Model

ENG_CVM_CVM_2-2456589-0_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-2456589-0_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_2-2456589-0_A.3d_igs.zip

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English