

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, Number of potentials: 8, Number of rows: 1, Number of positions per row: 8, number of connections: 8, product range: PTSM 0,5/...-HH-THR, pitch: 2.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, Stecksyst.: COMBICON COMPACT PTSM, Locking: without, type of packaging: 44 mm wide tape


The figure shows the 3-pos. version

Your advantages

- ✓ Designed for integration into the SMT soldering process
- ✓ Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	500 pc
GTIN	 4 046356 529860
GTIN	4046356529860
Weight per Piece (excluding packing)	2.040 g
Custom tariff number	85366930
Country of origin	China

Technical data

Item properties

Brief article description	Feed-through header
Plug-in system	COMBICON COMPACT PTSM
Type of contact	Male connector
Range of articles	PTSM 0,5/...-HH-THR
Pitch	2.5 mm
Number of positions	8

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Technical data

Item properties

Mounting type	THR soldering
Pin layout	Linear pinning
Locking	without
Number of levels	1
Number of connections	8
Number of potentials	8

Electrical parameters

Nominal current	6 A
Nom. voltage	160 V
Rated voltage	50 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface contact area (top layer)	Tin (3 - 5 µm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 µm Ni),
Metal surface soldering area (top layer)	Tin (3 - 5 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 µm Ni)

Material data - housing

Housing color	black (9005)
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [l]	7.5 mm
Width [w]	21.7 mm
Height [h]	7 mm

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Technical data

Dimensions for the product

Pitch	2.5 mm
Height (without solder pin)	5 mm
Solder pin [P]	2.1 mm
Pin spacing	2.50 mm
Pin dimensions	0.6 x 0.6 mm

Dimensions for PCB design

Hole diameter	1.1 mm
Pin spacing	2.50 mm

Packaging information

Type of packaging	44 mm wide tape
Pieces per package	500
Denomination packing units	Pcs.
[W] tape width	44 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	50.4 mm
Outer packaging type	Transparent-Bag

Processing notes

Process	Reflow/wave soldering
Specification	Following IPC/JEDEC J-STD-020D.1:2008-03
	Following IEC 61760-1:2006-04
	Following IEC 60068-2-58:2005-02
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)

Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	1.9 mm

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Technical data

Air clearances and creepage distances

Minimum creepage distance value (III/2)	1.6 mm
Minimum creepage distance value (II/2)	1.6 mm

Standards and Regulations

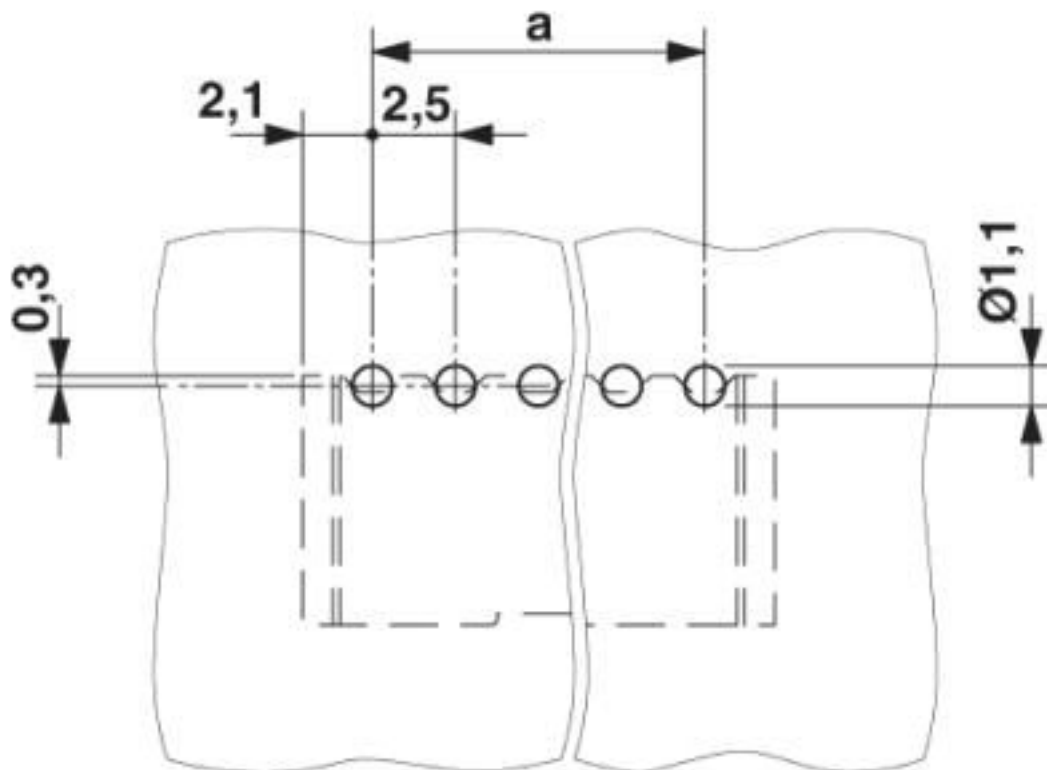
Connection in acc. with standard	EN-VDE
	UL
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

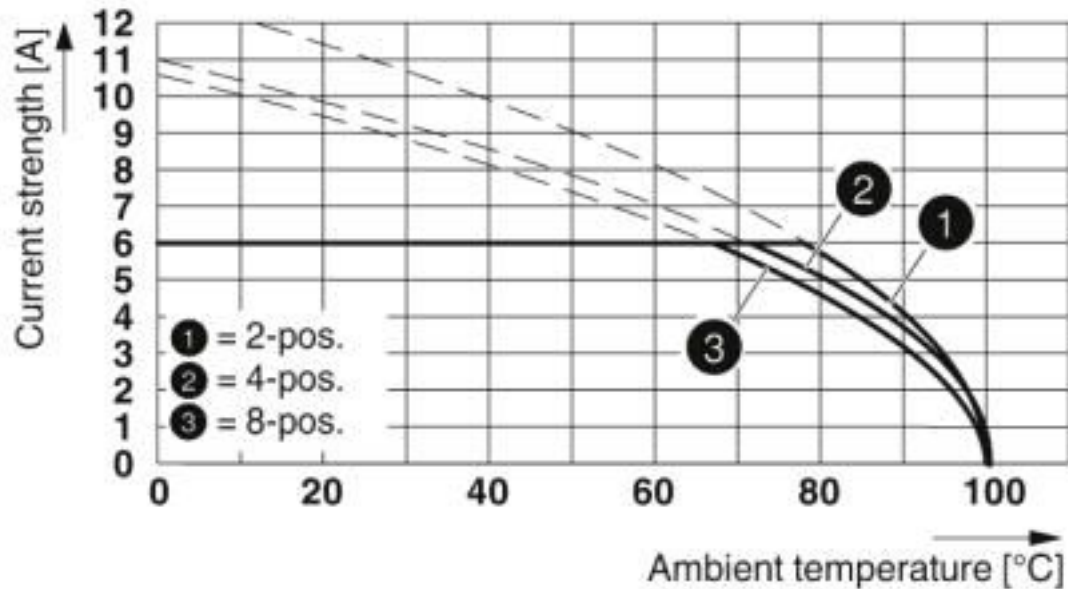
Drawings

Drilling diagram



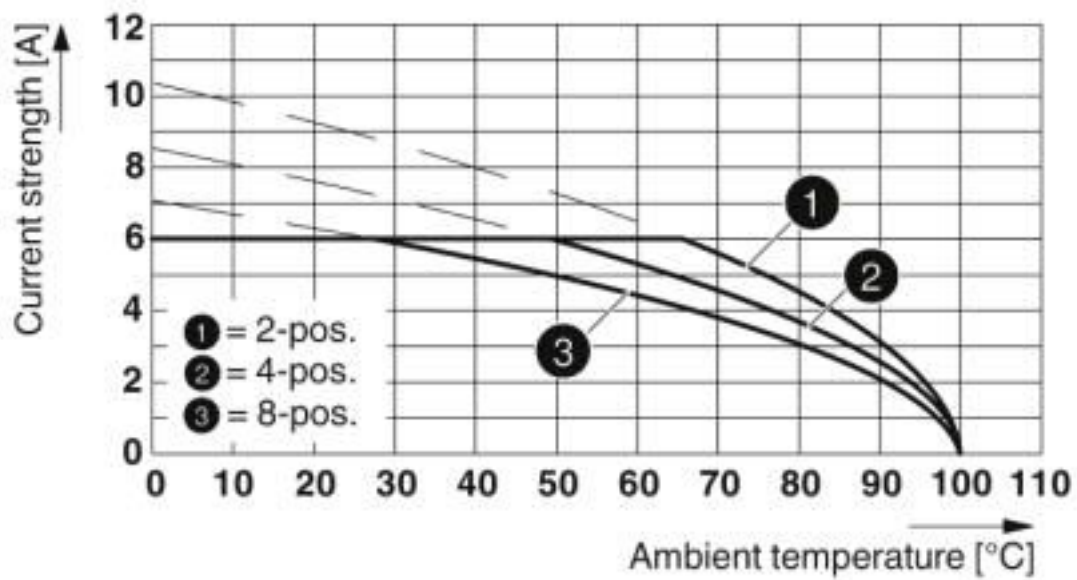
Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Diagram



Derating curve for: PTSM 0,5/...P-2,5 with PTSM 0,5/...HH-2,5-THR R..

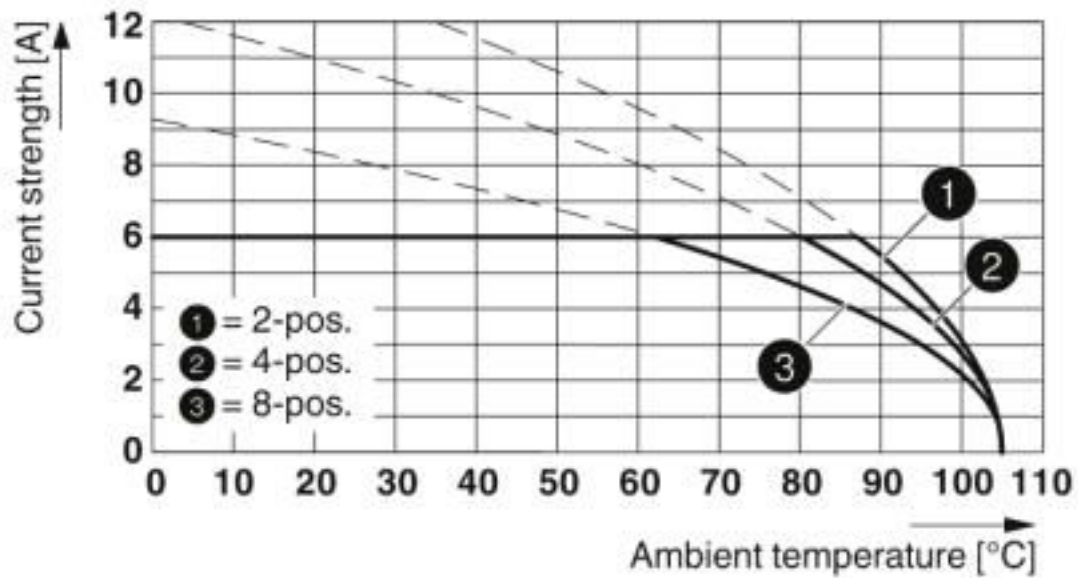
Diagram



Type: PTSM 0,5/...HHI1-2,5-THR R... with PTSM 0,5/...HH-2,5-THR R...

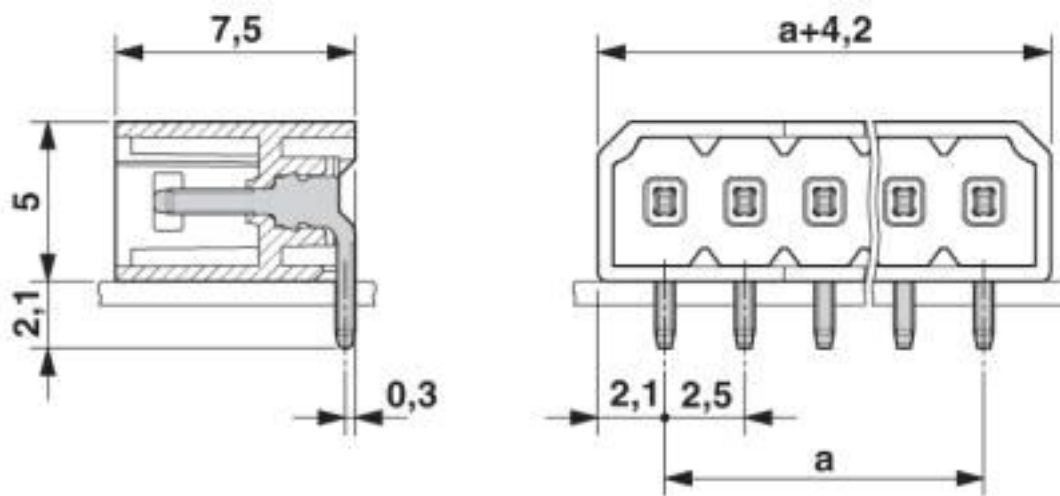
Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Diagram



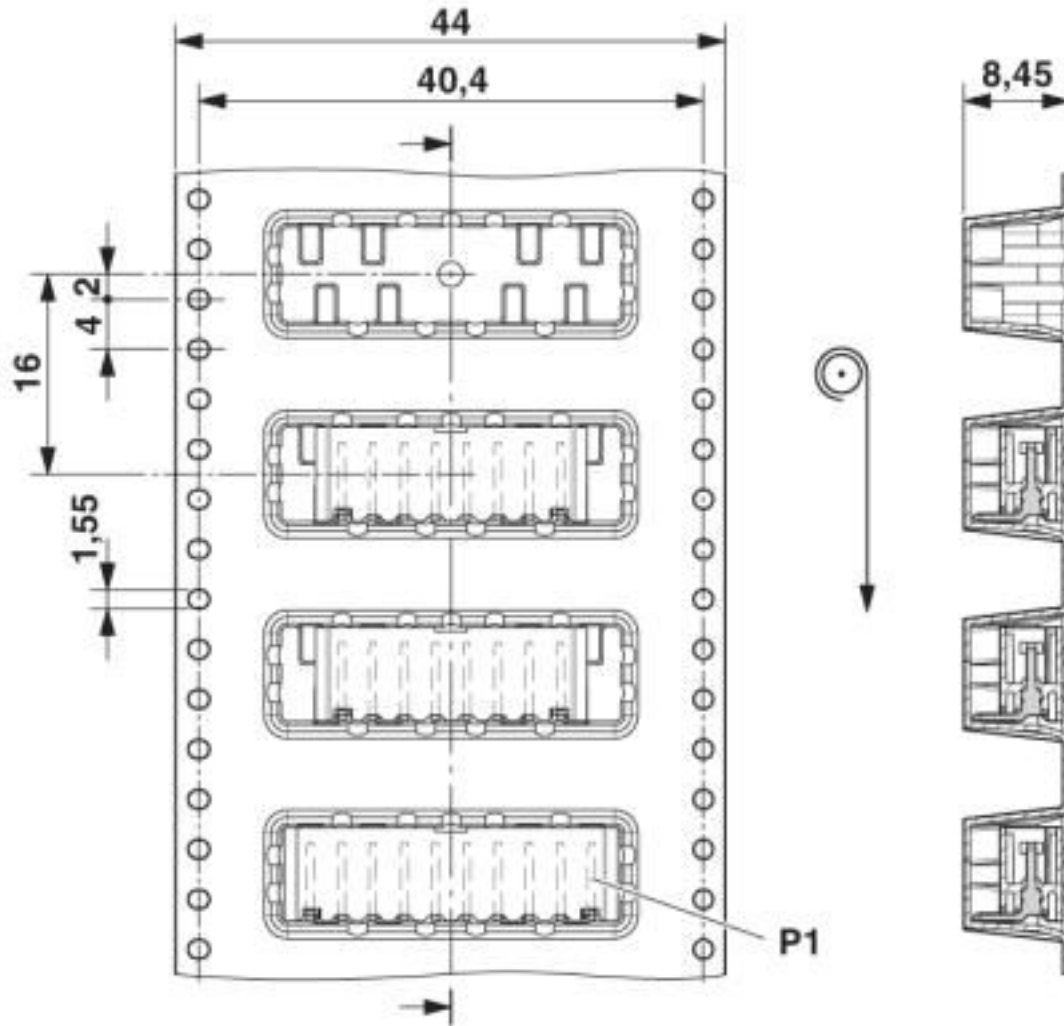
Type: PTCM 0,5/...-PL-2,5 WH with PTSM 0,5/...-HH-2,5-THR WH R...

Dimensional drawing



Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27440402
eCl@ss 11.0	27460201
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440402

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Classifications

eCl@ss

eCl@ss 8.0	27440402
eCl@ss 9.0	27440402

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002637
ETIM 5.0	EC002637
ETIM 6.0	EC002637
ETIM 7.0	EC002637

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409
UNSPSC 18.0	39121409
UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

Approvals


Approvals

Approvals

UL Recognized / VDE Zeichengenehmigung / EAC / cULus Recognized

Ex Approvals


Approval details


UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976-20130619
		B	
Nominal voltage UN	150 V		


Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Approvals

	B
Nominal current I _N	5 A

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40048497
Nominal voltage U _N	160 V		
Nominal current I _N	6 A		
mm ² /AWG/kcmil	0.14-.5		

EAC		B.01687
-----	---	---------

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110108
	B		
Nominal voltage U _N	150 V		
Nominal current I _N	6 A		

Accessories

Additional products

Printed-circuit board connector - PTSM 0,5/ 8-P-2,5 - 1778890



PCB connector, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, Number of potentials: 8, Number of rows: 1, Number of positions per row: 8, number of connections: 8, product range: PTSM 0,5/...-P, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, Stecksystem: COMBICON COMPACT PTSM, Locking: without, type of packaging: packed in cardboard

Plug - PTPM 0,2/ 8-P-2,5 - 1780503



PCB connector, color: black, contact surface: Tin, Number of positions per row: 8, product range: PTPM 0,2/...-P, pitch: 2.5 mm

Feed-through header - PTSM 0,5/ 8-HH-2,5-THR R44 - 1778683

Accessories

Plug - PTPM 0,4/ 8-P-2,5 - 1780558



PCB connector, color: black, contact surface: Tin, Number of positions per row: 8, product range: PTPM 0,4/...-P, pitch: 2.5 mm