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### What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

### Applications of "[Embedded - Microcontrollers](#)"

#### Details

Product Status	Active
Core Processor	RXv2
Core Size	32-Bit Single-Core
Speed	120MHz
Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, LINbus, MMC/SD, SCI, SPI, SSI, UART/USART, USB
Peripherals	DMA, LVD, POR, PWM, WDT
Number of I/O	127
Program Memory Size	3MB (3M x 8)
Program Memory Type	FLASH
EEPROM Size	64K x 8
RAM Size	552K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 3.6V
Data Converters	A/D 29x12b; D/A 2x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	177-TFLGA
Supplier Device Package	177-TFLGA (8x8)
Purchase URL	<a href="https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f564mjhdlc-21">https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f564mjhdlc-21</a>

## PCV 4/ 2-G-7,62

Order No.: 1804687

The figure shows a 5-pos. version of the product



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1804687>

Header, Nominal current: 20 A, Nom. voltage: 400 V, Pitch: 7.62 mm,  
Number of positions: 2, Color: green, Assembly: Soldering

### Commercial data

EAN	4017918046125
Pack	50 pcs.
Customs tariff	85366990
Weight/Piece	0.004256 KG
Catalog page information	Page 371 (CC-2009)

### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### Dimensions / positions

Pitch	7.62 mm
Dimension a	7.62 mm
Number of positions	2
Pin dimensions	1 x 0,8 mm
Hole diameter	1.3 mm

#### Technical data

Insulating material group	I
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV
Rated voltage (III/2)	630 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	20 A
Nominal voltage $U_N$	400 V
Maximum load current	20 A
Insulating material	PA
Inflammability class acc. to UL 94	V0

#### Certificates / Approvals



Certification

BV, CSA, CUL, DNV, GL, GOST, LR, RS, UL

#### CSA

Nominal voltage $U_N$	300 V
Nominal current $I_N$	20 A

#### CUL

Nominal voltage $U_N$	300 V
Nominal current $I_N$	35 A

#### UL

Nominal voltage $U_N$	300 V
Nominal current $I_N$	35 A

## Accessories

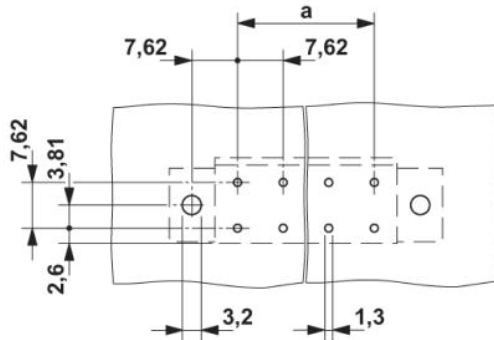
Item	Designation	Description
<b>Assembly</b>		
1827570	BF-PC 4	Mounting flange, is snapped onto the left and right of the headers, for screw connection with PC 4/...-STF-7.62
<b>Marking</b>		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0804549	SK 7,62/3,8:FORTL.ZAHLEN	Marker card, printed horizontally, self-adhesive, 10-section marker strip, 12 identical decades marked 1-10, 11-20 etc. up to 91-99, sufficient for 120 terminal blocks
0805153	SK 7,62/3,8:SO	Marker card, special printing, self-adhesive, labeled acc. to customer requirements, 12 identical marker strips per card, max. 25-position labeling per strip, color: white
0803906	SK U/3,8 WH:UNBEDRUCKT	Unprinted marker cards, DIN A4 format, pitch as desired, self-adhesive, with 40 stamped marker strips, 185 mm strip length, can be labeled with the CMS system or manually with the M-PEN
<b>Plug/Adapter</b>		
1600027	CP-HCC 4	Coding profile, Color: red

## Additional products

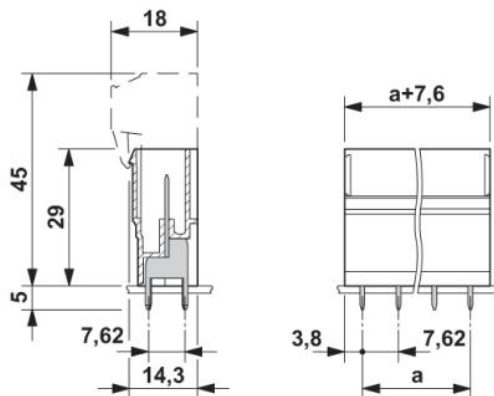
Item	Designation	Description
<b>General</b>		
1848892	PC 4 HV/ 2-ST-7,62	Plug component, Nominal current: 20 A, Nom. voltage: 800 V, Pitch: 7.62 mm, Number of positions: 2, Connection type: Screw connection, Color: green
1882379	PC 4 HV/ 2-STF-7,62	Plug component, Nominal current: 20 A, Nom. voltage: 800 V, Pitch: 7.62 mm, Number of positions: 2, Connection type: Screw connection, Color: green
1804904	PC 4/ 2-ST-7,62	Plug component, Nominal current: 20 A, Nom. voltage: 400 V, Pitch: 7.62 mm, Number of positions: 2, Connection type: Screw connection, Color: green
1828249	PC 4/ 2-STF-7,62	Plug component, Nominal current: 20 A, Nom. voltage: 400 V, Pitch: 7.62 mm, Number of positions: 2, Connection type: Screw connection, Color: green
1840191	PCC 4/ 2-ST-7,62	Plug component, Nominal current: 20 A, Nom. voltage: 400 V, Pitch: 7.62 mm, Number of positions: 2, Connection type: Crimp connection, Color: green

## Diagrams/Drawings

Drilling plan/solder pad geometry



Dimensioned drawing



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