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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 "<u>Embedded - Microcontrollers</u>"

Details		
Product Status	Discontinued at Digi-Key	
Core Processor	RX	
Core Size	32-Bit Single-Core	
Speed	50MHz	
Connectivity	EBI/EMI, I²C, SCI, SPI	
Peripherals	DMA, LVD, POR, PWM, WDT	
Number of I/O	84	
Program Memory Size	128KB (128K x 8)	
Program Memory Type	FLASH	
EEPROM Size	8K x 8	
RAM Size	20K x 8	
Voltage - Supply (Vcc/Vdd)	1.62V ~ 5.5V	
Data Converters	A/D 16x12b; D/A 2x10b	
Oscillator Type	Internal	
Operating Temperature	-40°C ~ 85°C (TA)	
Mounting Type	Surface Mount	
Package / Case	100-LQFP	
Supplier Device Package	100-LFQFP (14x14)	
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f52105bdfp-30	

Email: info@E-XFL.COM

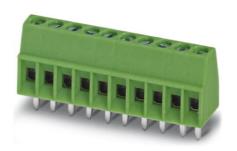
Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong



# MPT 0,5/ 3-2,54

Order No.: 1725669

The figure shows a 10-position version of the product



http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1725669

PC terminal block, Nominal current: 6 A, Nom. voltage: 63 V, Pitch: 2.54 mm, Number of positions: 3, Type of connection: Screw connection, Assembly: Soldering, Conductor/PCB connection direction: 0 °. Color: green

direction. 0	, oolor, green

Commercial data		
EAN	4017918116262	
Pack	50 pcs.	
Customs tariff	85369010	
Weight/Piece	0.000994 KG	
Catalog page information	Page 51 (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**

Length	6.2 mm
Pitch	2.54 mm
Dimension a	5.08 mm

Number of positions	3
Pin dimensions	0,5 x 0,9 mm
Hole diameter	1.1 mm
Screw thread	M1,6
Tightening torque, min	0.12 Nm
Tightening torque max	0.15 Nm
Technical data	
Insulating material group	I
Rated surge voltage (III/3)	1.5 kV
Rated surge voltage (III/2)	1.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I <sub>N</sub>	6 A
Nominal voltage U <sub>N</sub>	63 V
Nominal cross section	0.5 mm²
Maximum load current	6 A
Insulating material	PA
Inflammability class acc. to UL 94	V0
Stripping length	4.5 mm
Connection data	
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	0.5 mm²
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	0.5 mm²
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	0.34 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	0.34 mm²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	20

2 conductors with same cross section, solid min.	0.14 mm²
2 conductors with same cross section, solid max.	0.34 mm²
2 conductors with same cross section, stranded min.	0.14 mm²
2 conductors with same cross section, stranded max.	0.34 mm²

## **Certificates / Approvals**





CSA, CUL, UL Certification CSA

Nominal voltage U <sub>N</sub>	125 V
Nominal current I <sub>N</sub>	6 A
AWG/kcmil	28-20

CUL

Nominal voltage U <sub>N</sub>	125 V
Nominal current I <sub>N</sub>	6 A
AWG/kcmil	30-20

UL

Nominal voltage U <sub>N</sub>	125 V
Nominal current I <sub>N</sub>	6 A
AWG/kcmil	30-20

## Accessories

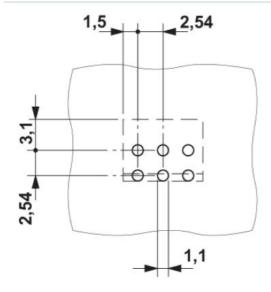
Item	Designation	Description
Marking		
0804853	SK 2,54/2,8:FORTL.ZAHLEN	Marker card, printed horizontally, self-adhesive, 10-section marker strip, 14 identical decades marked 1-10, 11-20 etc. up to 91-100, sufficient for 140 terminal blocks
Toolo		

#### Tools

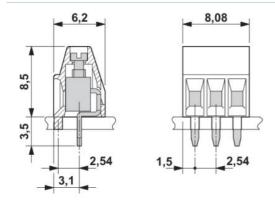
1205202	SZS 0,4X2,0	Screwdriver, bladed, matches all screw terminal blocks up to 1.5 mm² connection cross section, blade width: 2.5 mm, without approvals

## Diagrams/Drawings

## Drilling plan/solder pad geometry



## Dimensioned drawing



### Address

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