Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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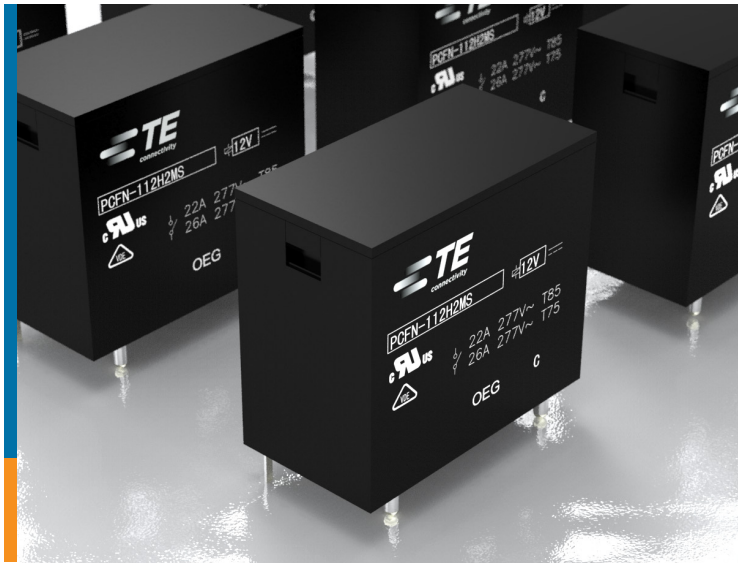
PCFN SOLAR

High Performance

Power PCB Relay



TE Connectivity has expanded the PCFN Solar Relay line to include a new high performance relay with larger (> 1.8 mm) contact gaps to support extended insulation requirements for use in photovoltaic applications. With the same mechanical dimensions as the standard PCFN solar relays, the new high performance version has increased thermal performance up to 90°C and features a 1.5 W coil with low holding power of 200 mW to help lower energy costs.

Contact data

- Contact arrangement: 1 form A (NO)
- Contact gap: > 1.8 mm
- Rated voltage: 277 VAC
- Rated current: 26 A at 75 °C,
- Breaking capacity max.: 7200 VA
- Contact material: AgSnO2

Coil Data

- Rated coil voltage: 12 VDC and 24 VDC
- UL coil insulation system: Class F
- Rated coil power: 1.5 W [1]

Insulation Data

- Initial dielectric strength:
  - Open contacts: 2500 V rms
  - Contact and coil: 4000 V rms
- Clearance/creepage: 6.1 mm

Mechanical

- Ambient temperature: -25 to + 90 °C [1]
- Vibration resistance: 10g
- Shock resistance: 100g

[1] Ambient temperature: >23 °C requires reduction of coil voltage to 37%...50% of rated coil voltage after 100 ms

Key Benefits

- Compact size for PCB applications
- Meets IEC 62109-2 requirement for > 1.8 mm contact gap
- Energy efficient holding power of 200 mW

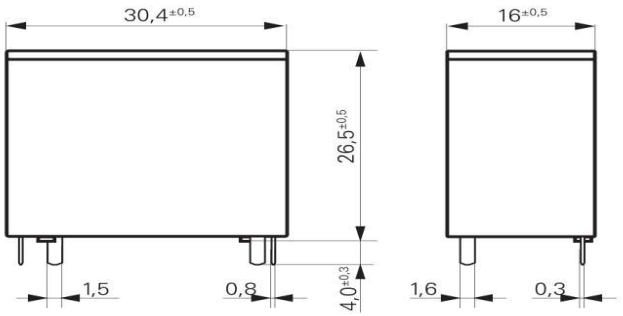
Applications

- Photovoltaic inverters
- Charging stations
- Electrical grid disconnects

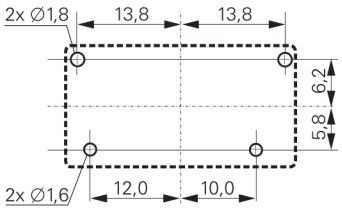
Product Offering

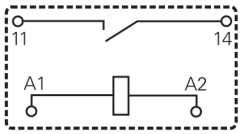
Product Code	Part Number	Version	Contact arrangement	Contact material	Coil
PCFN-112H2MS	2071169-1	PCB, flux tight	1 form A (NO) contact	$AgSnO_2$	12 VDC
PCFN-124H2MS	2071169-2	PCB, flux tight	1 form A (NO) contact	$AgSnO_2$	24 VDC

Product Dimensions



PCB Layout / Terminal Assignment *(Bottom view on solder pins)*





NOTE: it is recommended to connect the grid
(phase or neutral line) to pin 11 of the PCFN Solar.

1-1773734-2 JG5 PDF 05/2014

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