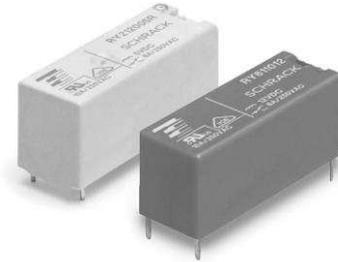


**Miniature Power PCB RYII & RYII Reflow Solderable  
RY900130R, RY900147R**

- n 1 pole 8A, 1 form C (CO)
- n 5kV/8mm coil-contact
- n Reinforced insulation (protection class II)
- n Pinnings: 3.2mm
- n Reflow-solderable version

Typical applications  
heating control, interface technology, domestic appliances, timers,  
temperature control



F0142-E



**Approvals**

VDE Cert. No. 40009639, UL E214025  
Technical data of approved types on request

**Contact Data**

Contact arrangement	1 form C (CO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Breaking capacity AC max.	2000VA
Contact material	AgNi0.15
Mechanical endurance	30x10 <sup>6</sup> cycles
Frequency of operation, with/without load	6/1200min <sup>-1</sup>

**Contact ratings**

Type	Contact	Load	Cycles
<b>IEC61810</b>			
RY211	A (NO)	8A, 250VAC, 70°C	75x10 <sup>3</sup>
RY211	B (NC)	8A, 250VAC, 70°C	50x10 <sup>3</sup>
<b>UL508</b>			
RY211	A/B (NO/NC)	10A, 250VAC, general purpose, 70°C	30x10 <sup>3</sup>
RY211	A (NO)	1/2hp, 240VAC, 85°C	30x10 <sup>3</sup>
RY211	A/B (NO/NC)	B300, 70°C	6x10 <sup>3</sup>
RY211	A (NO)	C300, 105°C	30x10 <sup>3</sup>
RY211	A/B (NO/NC)	2A, 277VAC, 85°C	100x10 <sup>3</sup>
RY211	A/B (NO/NC)	2A, 30VDC, 85°C	100x10 <sup>3</sup>
<b>EN60730-1</b>			
RY211	A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 <sup>3</sup>
RY211	A (NO)	8(4)A, 250VAC, 75°C	100x10 <sup>3</sup>

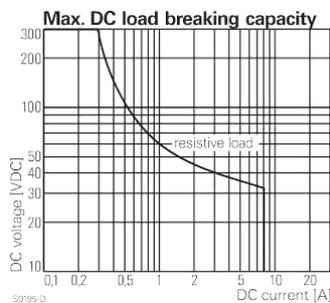
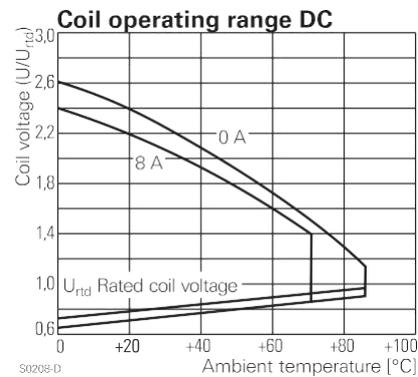
**Coil Data**

Coil voltage range DC coil	5 to 60 VDC
Operative range	2

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
005	5	3.5	0.5	112	223
024	24	16.8	2.4	2350	245

All figures are given for coil without pre-energization, at ambient temperature +23°C  
Other coil voltages on request



**Insulation Data**

	CO contact	NO contact
Initial dielectric strength		
between open contacts		1000V <sub>rms</sub>
between contact and coil		5000V <sub>rms</sub>
Clearance/creepage		
between contact and coil		≥8/8mm
Material group of insulation parts		IIIa
Tracking index of relay base		
reflow-solderable version		PTI175

**Miniature Power PCB RYII & RYII Reflow Solderable**  
**RY900130R, RY900147R** (Continued)

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

Ambient temperature	-40 to +70°C +85°C at 6A
Category of environmental protection IEC 61810	RTII - flux proof
Vibration resistance (functional), form A (NO)/form B (NC)	20/5g
Shock resistance (functional) form A (NO)/form B (NC)	20/5g
Shock resistance (destructive)	100g
Terminal type	PCB-THR
Weight	8g
Resistance to soldering heat THT IEC 60068-2-20	RTII : 270°C/10s
Resistance to soldering heat THR IEC 60068-2-58	250°C, no infrared heating allowed
Packaging/unit reflow version	reel/280 pcs. box/1120 pcs. (4 reels)

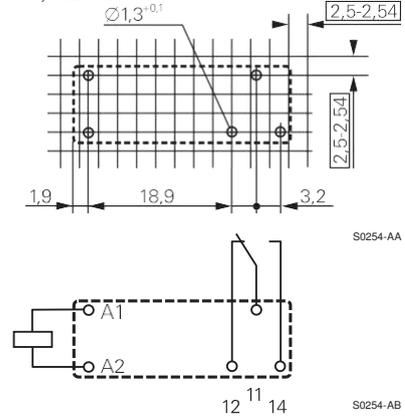
**Accessories**

For details see datasheet [Accessories Miniature PCB Relay RY](#)

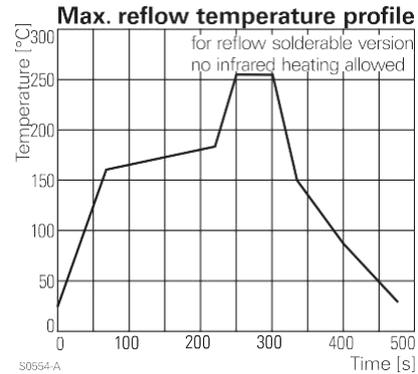
**PCB layout / terminal assignment**

Bottom view on solder pins

1 form C (CO) contact, 3.2mm

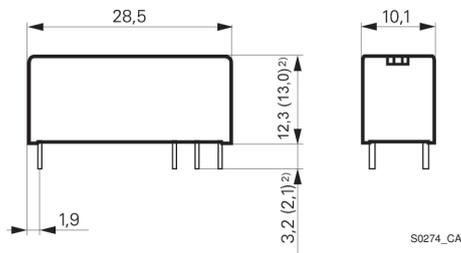


**Soldering profile for reflow-solderable version**



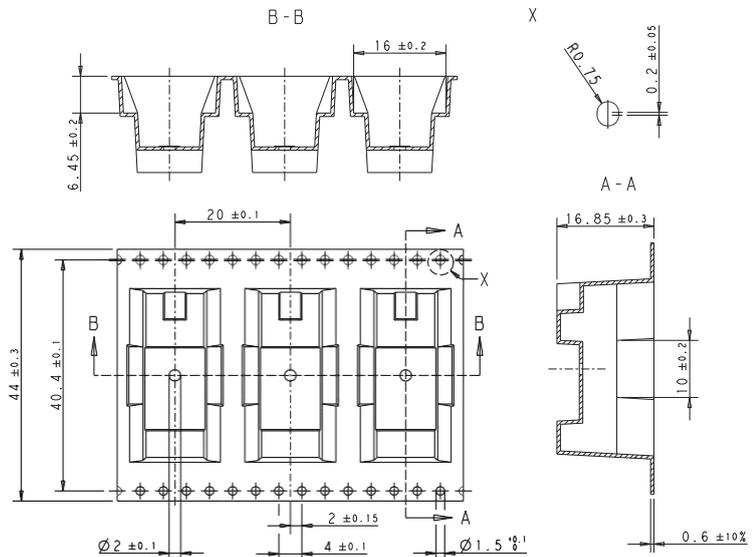
**Dimensions**

Pinning 3.2mm



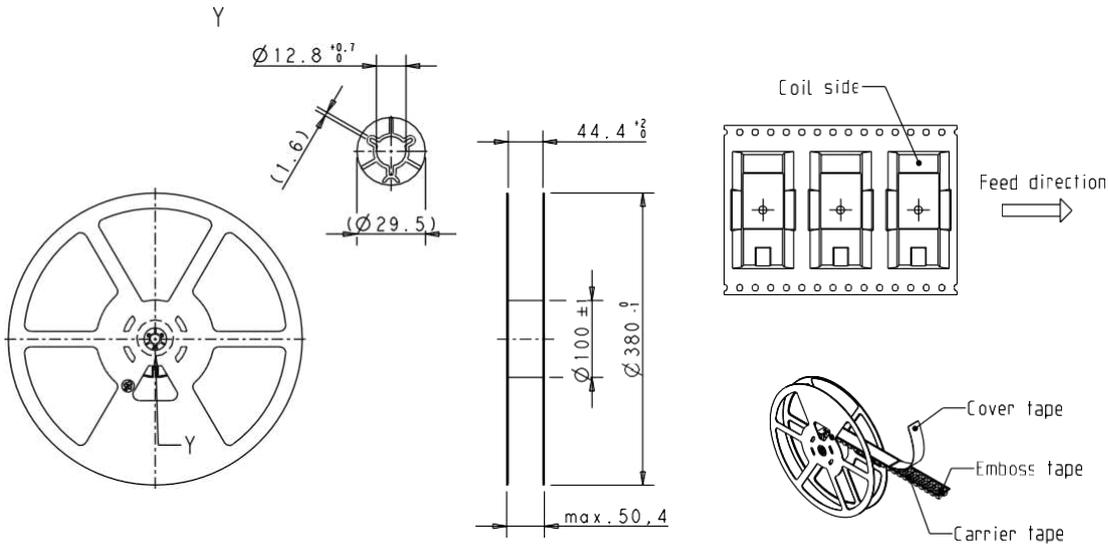
2) Values in brackets are valid for reflow-solderable version

**Tape dimensions**



**Miniature Power PCB RYII & RYII Reflow Solderable**  
**RY900130R, RY900147R** (Continued)

Reel dimensions



<b>Product code structure</b>	Typical product code	<b>RY</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>012</b>				
<b>Type</b>	RY Miniature Power PCB RYII & RYII reflow solderable									
<b>Version</b>	<table border="0"> <tr> <td><b>2</b> pinning 3.2mm, flux proof</td> <td><b>6</b> pinning 3.2mm, wash tight**)</td> </tr> <tr> <td><b>5</b> pinning 5mm, flux proof</td> <td><b>A</b> pinning 5 mm, wash tight**)</td> </tr> </table>						<b>2</b> pinning 3.2mm, flux proof	<b>6</b> pinning 3.2mm, wash tight**)	<b>5</b> pinning 5mm, flux proof	<b>A</b> pinning 5 mm, wash tight**)
<b>2</b> pinning 3.2mm, flux proof	<b>6</b> pinning 3.2mm, wash tight**)									
<b>5</b> pinning 5mm, flux proof	<b>A</b> pinning 5 mm, wash tight**)									
<b>Contact configuration</b>	<table border="0"> <tr> <td><b>1</b> form C (CO Contact), pinning 3.2mm</td> <td><b>3</b> form A (NO contact), pinning 5m</td> </tr> </table>						<b>1</b> form C (CO Contact), pinning 3.2mm	<b>3</b> form A (NO contact), pinning 5m		
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<b>Contact material</b>	<table border="0"> <tr> <td><b>1</b> AgNi 0.15</td> <td><b>2</b> AgNi 0.15 gold plated</td> </tr> <tr> <td><b>3</b> AgSnO<sub>2</sub></td> <td></td> </tr> </table>						<b>1</b> AgNi 0.15	<b>2</b> AgNi 0.15 gold plated	<b>3</b> AgSnO <sub>2</sub>	
<b>1</b> AgNi 0.15	<b>2</b> AgNi 0.15 gold plated									
<b>3</b> AgSnO <sub>2</sub>										
<b>Coil</b>	Coil code: please refer to coil versions table									
<b>Version</b>	<table border="0"> <tr> <td><b>Blank</b> standard version</td> </tr> <tr> <td><b>R</b> reflow-solderable</td> </tr> </table>						<b>Blank</b> standard version	<b>R</b> reflow-solderable		
<b>Blank</b> standard version										
<b>R</b> reflow-solderable										

\*\*) not available as reflow-solderable version  
Other types on request

Product code	Version	Contacts	Contact material	Coil	Part number
RY900130R(RY211005R)	pinning 3.2 mm	1 form C	AgNi 0.15	5VDC	1956164-9
RY900147R(RY211024R)	flux proof, reflow solderable	1 CO contact		24VDC	2-1956164-7

Remark: special material of the cover