

### Miniature Power PCB RYII & RYII Reflow Solderable

- 1 pole 8A, 1 form C (CO) or 1 form A (NO) or 1 form B (NC) contact
- Low component height 12.3mm
- 5kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Pinnings: 3.2mm and 5mm
- Reflow-solderable version
- Especially suitable for resistive and inductive loads on form A (NO) and form B (NC) contacts
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications

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



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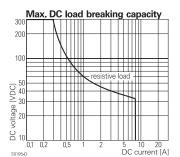
#### Approvals

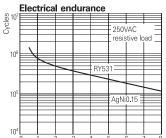
VDE Cert. No. 40009639, UL E214025 Technical data of approved types on request

Contact Data	
Contact arrangement	1 form C (CO) or
	1 form A (NO) or
	1 form B (NC)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Breaking capacity max.	2000VA
Contact material	AgNi0.15, AgSnO <sub>2</sub>
Frequency of operation, with/without load	6/1200min-1
Operate/release time max.	9/5ms
Bounce time max., form A/form B	6/10ms

Contact	t ratings				
Туре	Contact	Load	Cycles		
IEC618	10				
RY531	A (NO)	8A, 250VAC, 70°C	100x10 <sup>3</sup>		
RY211	A (NO)	8A, 250VAC, 75°C	100x10 <sup>3</sup>		
RY211	A (NO)	8A, 250VAC, 85°C	50x10 <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>		
EN6073	0-1				
RY211	A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 <sup>3</sup>		
RY211	A (NO)	8(4)A, 250VAC, 75°C	50x10 <sup>3</sup>		
RY211	A (NO)	8(4)A, 250VAC, 85°C	30x10 <sup>3</sup>		
Mechani	Mechanical endurance, DC coil 30x10 <sup>6</sup> operations				

S0184-C





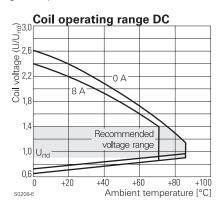
Switching current [A]

### **Coil Data**

Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2

#### Coil versions, DC coil Coil Rated Operate Release Coil Rated coil code voltage voltage voltage resistance power VDČ VDČ VDČ Ω±10% mW 005 5 3.5 0.5 112 223 006 6 4.2 0.6 162 222 009 9 6.3 0.9 320 253 012 12 8.4 1.2 627 230 24 16.8 24 2350 245 024 048 48 33.6 4.8 9391 245 060 60 42.0 6.0 14000 257

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



### Insulation Data

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	Illa	
Tracking index of relay base	PTI250	
reflow-solderable version	PTI175	

#### 04-20120 Rev. 0420 www.te.com © 2015 Tyco Electronics Corporation, a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

1



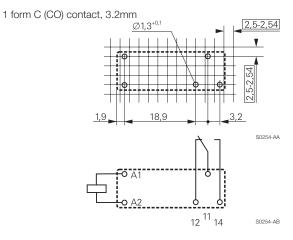
### Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

#### **Other Data**

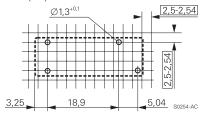
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Product Compliance Support Center a				
www.te.com/customersupport/rohssupportcente				
Ambient temperature	-40 to +70°C			
	+85°C at 6A			
Category of environmental protection	1			
IEC 61810	RTII - flux proof			
	RTIII - wash tight <sup>1)</sup>			
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-THT, PCB-THR			
Weight	8g			
Resistance to soldering heat THT				
IEC 60068-2-20	RTII : 270°C/10s			
	RTIII: 260°C/5s			
Resistance to soldering heat THR				
IEC 60068-2-58	250°C, no infrared heating allowed			
Packaging/unit				
standard version	tube/20 pcs., box/500 pcs.			
reflow version	reel/280 pcs.			
	box/1120 pcs. (4 reels)			
1) not available as reflow-solderable version				
Accessories				
For details see datasheet	Accessories Miniature PCB Relay RY			

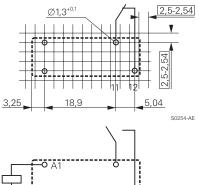
#### PCB layout / terminal assignment

Bottom view on solder pins

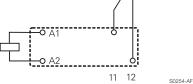


1 form A (NO), 1 form B (NC) contact 5mm

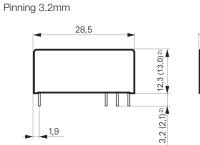








Dimensions

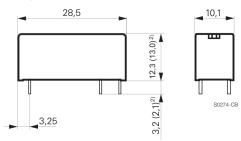


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10,1

Pinning 5mm

1,9



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

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2

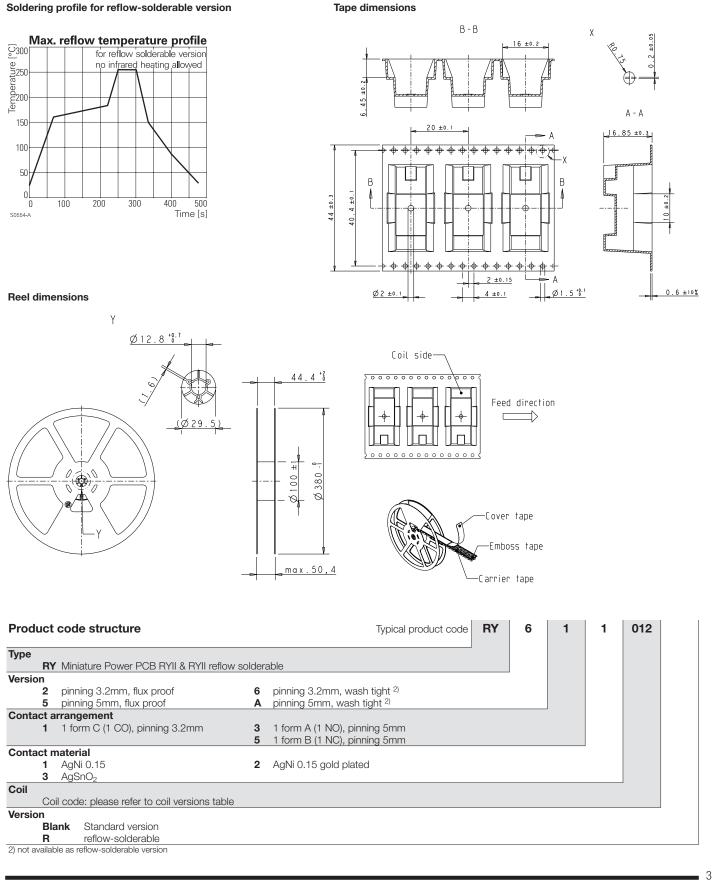
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### Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

Product code	Version	Contacts	Contact material	Coil	Part Number
RY211005	Pinning 3.2 mm	1 form C,	AgNi 0.15	5VDC	4-1393224-2
RY211012	flux proof	1 CO contact		12VDC	4-1393224-6
RY211024	·			24VDC	4-1393224-9
RY211048				48VDC	5-1393224-1
RY212005			AgNi 0.15	5VDC	5-1393224-2
RY212012			gold plated	12VDC	5-1393224-5
RY212024				24VDC	5-1393224-8
RY212048				48VDC	5-1393224-9
RY213005			AgSnO <sub>2</sub>	5VDC	6-1393224-0
RY213012			_	12VDC	6-1393224-1
RY213024				24VDC	6-1393224-2
RY213048				48VDC	6-1393224-3
RY531005	Pinning 5 mm	1 form A,	AgNi 0.15	5VDC	7-1393224-6
RY531012	flux proof	1 NO contact		12VDC	7-1393224-9
RY531024				24VDC	8-1393224-2
RY531048				48VDC	8-1393224-3
RY532012			AgNi 0.15	12VDC	8-1393224-4
RY532024			gold plated	24VDC	8-1393224-5
RY533012			AgSnO <sub>2</sub>	12VDC	8-1393224-8
RY533024			_	24VDC	8-1393224-9
RY533048				48VDC	9-1393224-0
RY611005	Pinning 3.2 mm	1 form C,	AgNi 0.15	5VDC	1-1393225-7
RY611006	wash tight	1 CO contact		6VDC	1-1393225-8
RY611012				12VDC	1-1393225-9
RY611024				24VDC	2-1393225-1
RY611048				48VDC	2-1393225-2
RY612005			AgNi 0.15	5VDC	2-1393225-3
RY612012			gold plated	12VDC	2-1393225-6
RY612024				24VDC	2-1393225-9
RY612048				48VDC	3-1393225-0
RY613005			AgSnO <sub>2</sub>	5VDC	5-1419136-2
RY613012				12VDC	3-1393225-1
RY613024				24VDC	3-1393225-3
RY613048				48VDC	3-1393225-4
RY631024		1 form A,	AgNi 0.15	24VDC	4-1415400-1
RYA31005	Pinning 5 mm	1 NO contact	-	5VDC	1393224-7
RYA31012	wash tight			12VDC	1393224-9
RYA31024				24VDC	1-1393224-2
RYA31048				48VDC	1-1393224-3
RYA32005			AgNi 0.15	5VDC	1-1393224-4
RYA32012			gold plated	12VDC	1-1393224-6
RYA32024			Ŭ .	24VDC	1-1393224-8
RYA33005			AgSnO <sub>2</sub>	5VDC	1-1393224-9
RYA33024			<u> </u>	24VDC	2-1393224-1

Product code	Version	Contacts	Contact material	Coil	Part number
RY211005R	pinning 3.2mm	1 form C,	AgNi 0.15	5VDC	1-1956170-2
RY211012R	flux proof	1 CO contact		12VDC	1-1956170-6
RY211024R	reflow solderable			24VDC	1956164-1
RY531005R	pinning 5.0mm	1 form A,		5VDC	1-1956171-1
RY531012R	flux proof	1 NO contact		12VDC	1-1956171-4
RY531024R	reflow solderable			24VDC	1-1956171-7

4

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 6031007G
 6131406HQ
 6-1393099-8
 6-1393122-4
 6-1393123-2
 6-1393767-1
 6-1393843-7
 6-1415012-1
 6-1419102-2
 6-1423698-4
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