

### 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



F0142-E

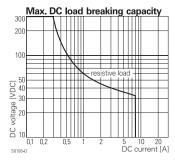


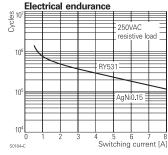
Approvals
VDE Cert. No. 40009639, UL E214025
Technical data of approved types on request

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 <sup>-1</sup>
Operate/release time max.	9/5ms
Bounce time max., form A/form B	6/10ms

Contact ratings

Load	Cycles
8A, 250VAC, 70°C	100x10 <sup>3</sup>
8A, 250VAC, 75°C	100x10 <sup>3</sup>
8A, 250VAC, 85°C	50x10 <sup>3</sup>
8A, 250VAC, 70°C	50x10 <sup>3</sup>
10A, 250VAC, general purpose, 70°C	30x10 <sup>3</sup>
1/2hp, 240VAC, 85°C	$30x10^3$
B300, 70°C	6x10 <sup>3</sup>
6(4)A, 250VAC, 85°C	100x10 <sup>3</sup>
8(4)A, 250VAC, 75°C	50x10 <sup>3</sup>
8(4)A, 250VAC, 85°C	30x10 <sup>3</sup>
DC coil 30x10 <sup>6</sup> operations	
	8A, 250VAC, 70°C 8A, 250VAC, 75°C 8A, 250VAC, 85°C 8A, 250VAC, general purpose, 70°C 1/2hp, 240VAC, 85°C B300, 70°C 6(4)A, 250VAC, 85°C 8(4)A, 250VAC, 75°C 8(4)A, 250VAC, 85°C

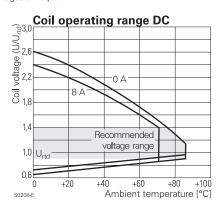




Coil Data	
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	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
024	24	16.8	2.4	2350	245
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



1000V <sub>rms</sub>	
5000V <sub>rms</sub>	
≥8/8mm	
IIIa	
PTI250	
PTI175	
	5000V <sub>rms</sub> ≥8/8mm Illa PTI250



# 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 at www.te.com/customersupport/rohssupportcenter

Ambient temperature -40 to +70°C +85°C at 6A

Category of environmental protection

IEC 61810 RTII - flux proof RTIII - wash tight1)

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. reel/280 pcs. reflow version box/1120 pcs. (4 reels)

1) not available as reflow-solderable version

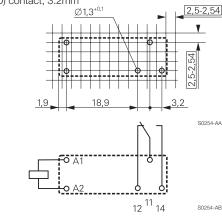
#### **Accessories**

Accessories Miniature PCB Relay RY For details see datasheet

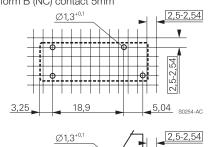
PCB layout / terminal assignment

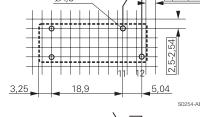
Bottom view on solder pins

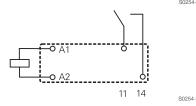
1 form C (CO) contact, 3.2mm

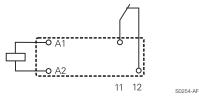


1 form A (NO), 1 form B (NC) contact 5mm



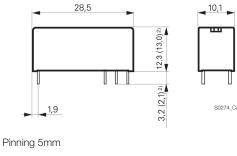


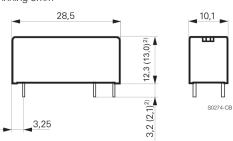




### Dimensions

Pinning 3.2mm



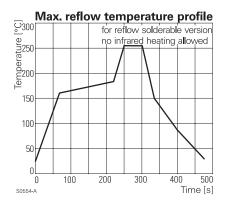


2) Values in brakets are valid for reflow-solderable version

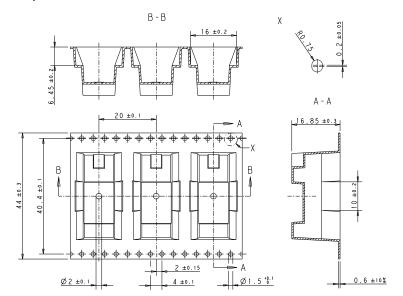


# Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

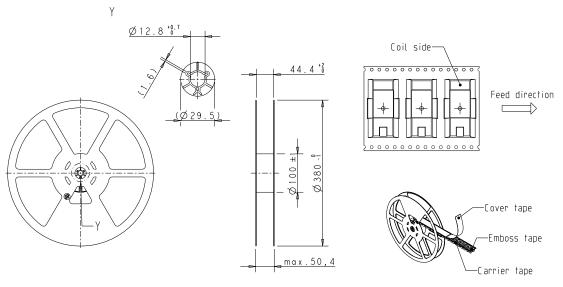
#### Soldering profile for reflow-solderable version

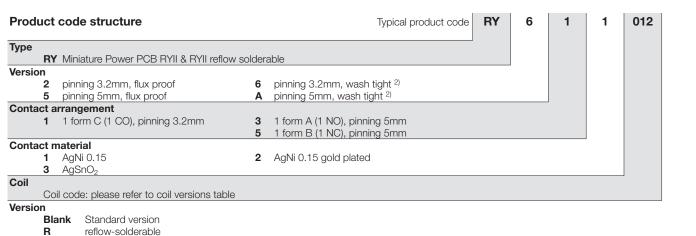


#### Tape dimensions



#### Reel dimensions





2) not available as reflow-solderable version



# 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				24VDC	1-1393224-8
RYA33005			AgSnO <sub>2</sub>	5VDC	1-1393224-9
RYA33024				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

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# TE Connectivity:

RY611012 RY610005 RY610012 RY210024 RY611024 RY210005 RY612012 RY211048 RY212005 RY212012
RY211005 RY612005 RY530018 RY611005 RY612024 RY211012 RY210012 RY610024 RYA30012
RY530005 RY210009 RY210015 RY212018 RY610006 RY610009 RY610018 RY611048 RYA30024 RY211024
RY550012 RY212006