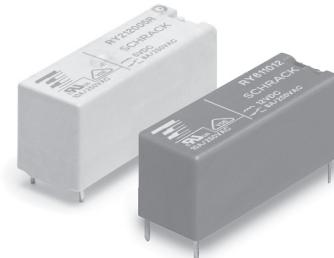


Miniature Power PCB RYII & RYII Reflow Solderable

- 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)



F0142-E



Typical applications

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

Approvals

VDE Cert. No. 40009639, UL E214025

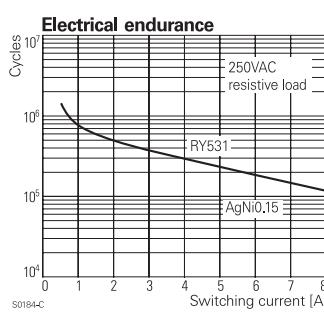
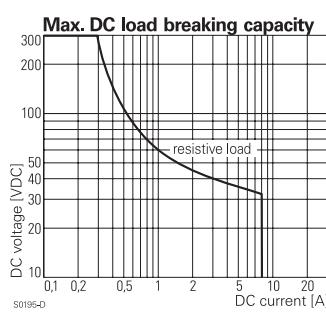
Technical data of approved types on request

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 ₂
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 ratings

Type	Contact	Load	Cycles
IEC61810			
RY531	A (NO)	8A, 250VAC, 70°C	100x10 ³
RY211	A (NO)	8A, 250VAC, 70°C	75x10 ³
RY211	B (NC)	8A, 250VAC, 70°C	50x10 ³
UL508			
RY211	A/B (NO/NC)	10A, 250VAC, general purpose, 70°C	30x10 ³
RY211	A (NO)	1/2hp, 240VAC, 85°C	30x10 ³
RY211	A/B (NO/NC)	B300, 70°C	6x10 ³
EN60730-1			
RY211	A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 ³
RY211	A (NO)	8(4)A, 250VAC, 75°C	100x10 ³
Mechanical endurance, DC coil			30x10 ⁶ operations



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 tight ¹⁾
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

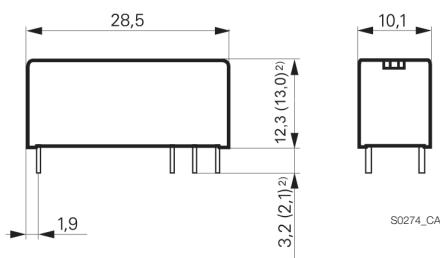
Accessories

For details see datasheet

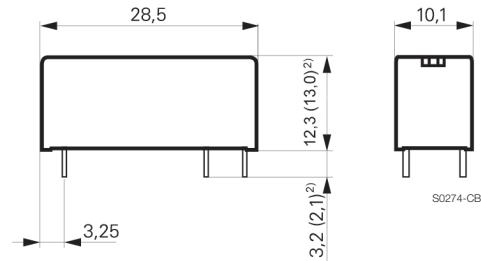
[Accessories Miniature PCB Relay RY](#)

Dimensions

Pinning 3.2mm



Pinning 5mm

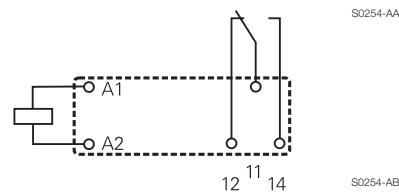
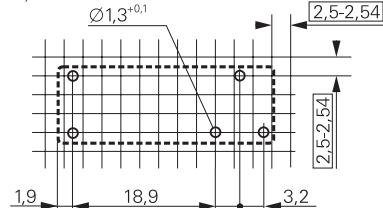


2) Values in brackets are valid for reflow-solderable version

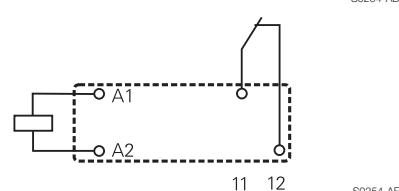
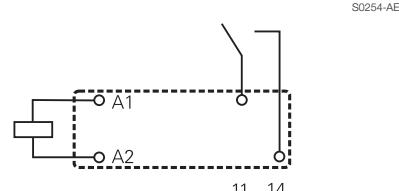
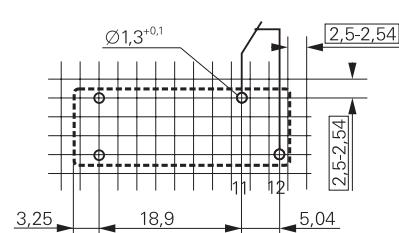
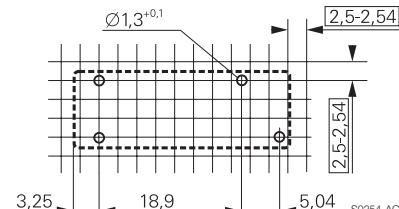
PCB layout / terminal assignment

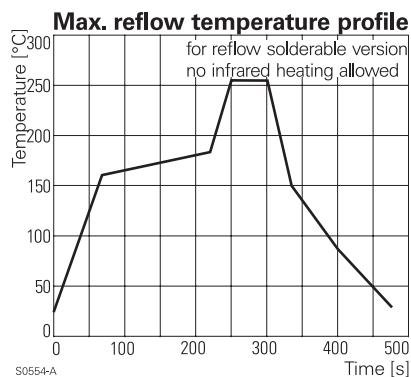
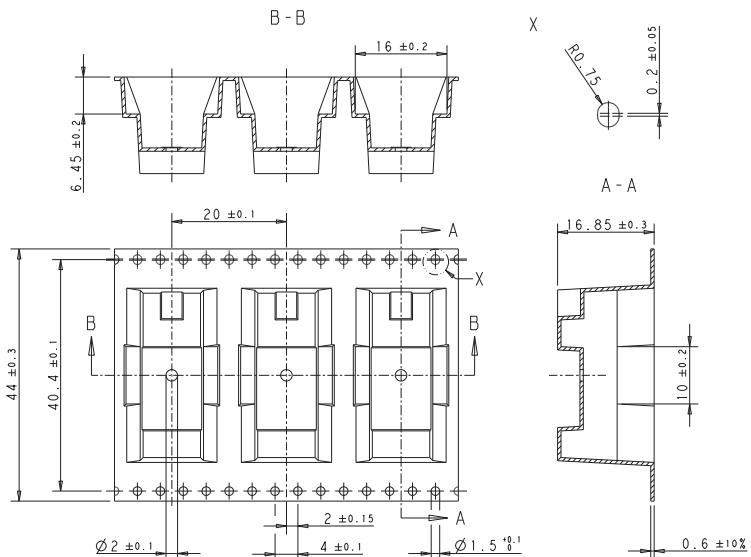
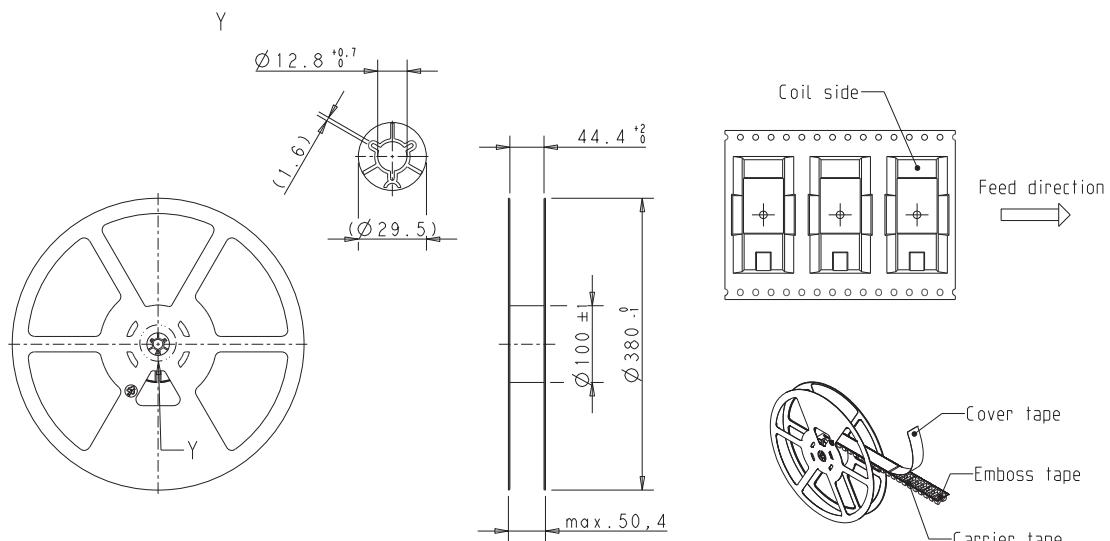
Bottom view on solder pins

1 form C (CO) contact, 3.2mm



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



Miniature Power PCB RYII & RYII Reflow Solderable (Continued)
Soldering profile for reflow-solderable version

Tape dimensions

Reel dimensions

Product code structure

Typical product code **RY** **6** **1** **1** **012**
Type
RY Miniature Power PCB RYII & RYII reflow solderable

Version
2 pinning 3.2mm, flux proof
5 pinning 5mm, flux proof

6 pinning 3.2mm, wash tight²⁾
A pinning 5mm, wash tight²⁾
Contact arrangement
1 1 form C (1 CO), pinning 3.2mm

3 1 form A (1 NO), pinning 5mm
5 1 form B (1 NC), pinning 5mm

Contact material
1 AgNi 0.15
3 AgSnO₂
2 AgNi 0.15 gold plated

Coil

Coil code: please refer to coil versions table

Version
Blank Standard version
R reflow-solderable

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

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

Mouser Electronics

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[8-1393224-4](#)