

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

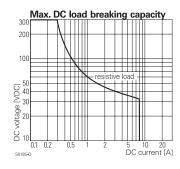


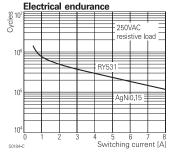
Approvals
VDE Cert. No. 40009639, UL E214025
Technical data of approved types on request

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 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

Contact	Contact ratings					
Туре	Contact	Load	Cycles			
IEC618	10					
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			
EN6073	0-1					
RY211	A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 ³			
RY211	A (NO)	8(4)A, 250VAC, 75°C	100x10 ³			
Mechani	ical endurance, l	DC coil 30x10 ⁶ operations				

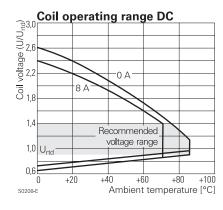




Coil Data		
Coil voltage range	5 to 60VDC	
Operative range, IEC 61810	2	

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



Insulation Data		
Initial dielectric strength		
between open contacts	$1000V_{rms}$	
between contact and coil	5000V _{rms}	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250	
reflow-solderable version	PTI175	



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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

1) not available as reflow-solderable version

Accessories

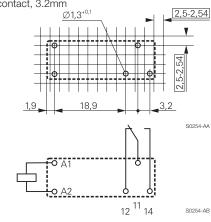
Accessories Miniature PCB Relay RY For details see datasheet

box/1120 pcs. (4 reels)

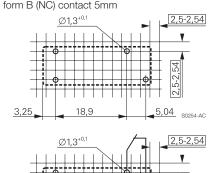
1 form C (CO) contact, 3.2mm

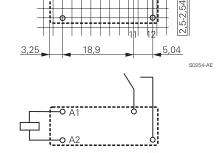
PCB layout / terminal assignment

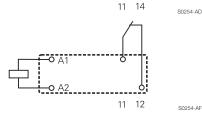
Bottom view on solder pins



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

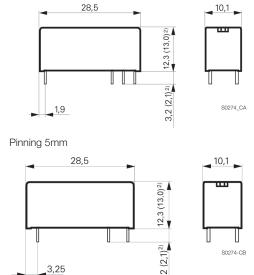






Dimensions

Pinning 3.2mm

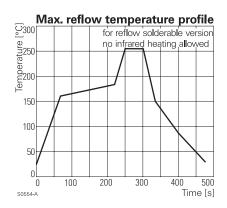


2) Values in brakets are valid for reflow-solderable version

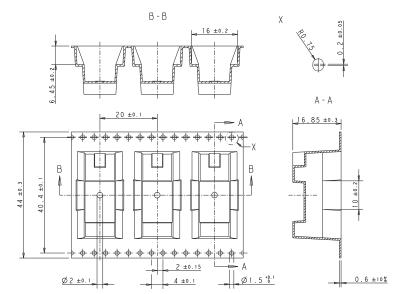


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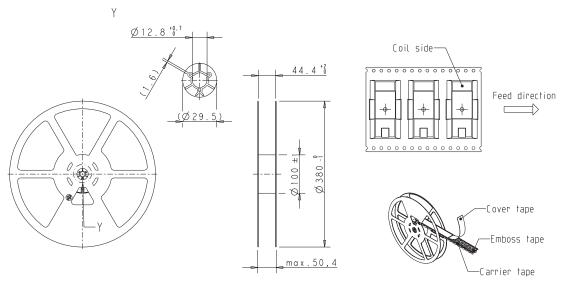
Soldering profile for reflow-solderable version

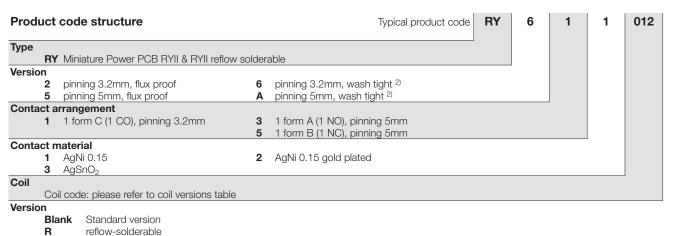


Tape dimensions



Reel dimensions





2) not available as reflow-solderable version



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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 ₂	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 ₂	12VDC	8-1393224-8
RY533024			3 2	24VDC	8-1393224-9
RY533048				48VDC	9-1393224-0
RY611005	Pinning 3.2 mm	1 form C.	AqNi 0.15	5VDC	1-1393225-7
RY611012	wash tight	1 CO contact		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			gover process	24VDC	2-1393225-9
RY612048				48VDC	3-1393225-0
RY613005			AgSnO ₂	5VDC	5-1419136-2
RY613012			1.92.1.2	12VDC	3-1393225-1
RY613024				24VDC	3-1393225-3
RY613048				48VDC	3-1393225-4
RY631024		1 form A.	AqNi 0.15	24VDC	4-1415400-1
RYA31005	Pinning 5 mm	1 NO contact	1.9 2.1.2	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			gois pistos	24VDC	1-1393224-8
RYA33005			AgSnO ₂	5VDC	1-1393224-9
RYA33024			, (901102	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

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TE Connectivity: 1393225-5