Tyco Electronics

General Purpose Relays PCB Relays 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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 60335-1¹⁾ (domestic appliances)

Typical applications

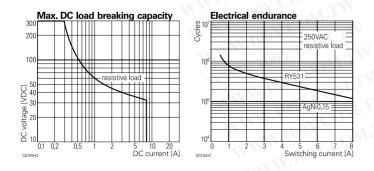
heating control, interface technology, domestic appliances, timers, temperature control

1) not available as reflow-solderable version

Approvals

Appiovais	
VDE REGNr. 5358, cULus 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	t ratings	W.100 COM.	
Туре	Contact	Load	Cycles
IEC618	10	N.IV. COM.	
RY531	A (NO)	8A, 250VAC, 70°C	100x10 ³
RY211	A (NO)	8A, 250VAC, 70°C	75x10 ³
RY211	A (NO)	8A, 250VAC, 70°C	50x10 ³
UL508		W.IV. COM.	
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	N.I. COM.	
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,	DC coil 30x10 ⁶ operations	A TW





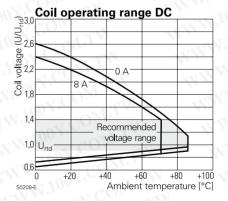
 Coil Data

 Coil voltage range
 5 to 60VDC

 Operative range, IEC 61810
 2

Coll vers	sions, DC co		- 40		
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	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
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



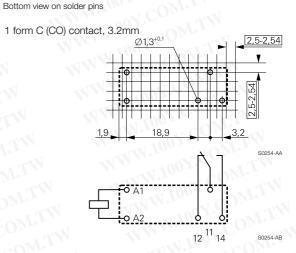
Insulation Data

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	

Miniature Power PCB RYII & RYII Reflow Solderable (Continued)



	China RoHS, REACH, Halogen content
refer to the I	Product Compliance Support Center at
www.tycoelectronics.com	m/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),	100 1.
form A (NO)/form B (NC)	20/5g
Shock resistance (functional)	1001
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	No WW
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	box/1120 pcs.
1) not available as reflow-solderable version	WW WA



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

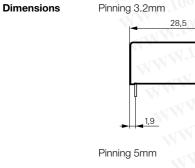
PCB layout / terminal assignment

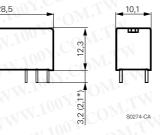
Accessories

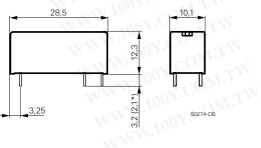
For details see datasheet

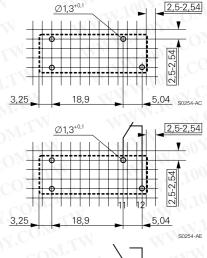
asheet Accessories Miniature PCB Relay RY

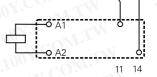
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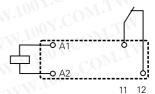












NN V

S0254-AD

S0254-AF

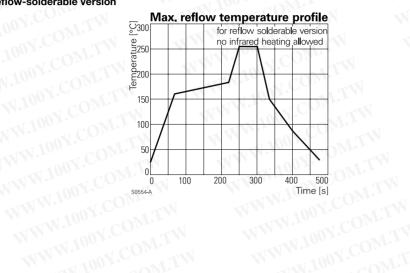


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Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

Soldering profile for reflow-solderable version



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NWW.II

Product code structure	Typical product code RY 6 1 1 012
Type RY Miniature Power PCB RY	
/ersion	
2 pinning 3.2mm, flux proof	
5 pinning 5mm, flux proof	A pinning 5mm, wash tight ²⁾
Contact arrangement	100 M WH TIOD CALL W WITH 100 P
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	2 AgNi 0.15 gold plated
3 AgSnO ₂	
Coil	00X. 174 WY 100X. M.T. W. M. 100
Coil code: please refer to coil	versions table
/ersion	
Blank Standard version	
R reflow-solderable	

Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

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Coil 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 48VDC 5VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 24VDC 12VDC 24VDC	Part number 4-1393224-2 4-1393224-2 4-1393224-2 5-1393224-1 5-1393224-2 5-1393224-2 5-1393224-2 5-1393224-3 6-1393224-1 6-1393224-1 6-1393224-2 6-1393224-3 7-1393224-4 8-1393224-2 8-1393224-2 8-1393224-3 7-1393224-4 8-1393224-2 8-1393224-2 8-1393224-3 8-1393224-4 8-1393224-3 8-1393224-4 8-1393224-3 8-1393224-4 8-1393224-4 8-1393224-5
12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 24VDC 24VDC 24VDC 12VDC 24VDC 12VDC 24VDC 24VDC	4-1393224-6 4-1393224-9 5-1393224-1 5-1393224-2 5-1393224-2 5-1393224-8 5-1393224-9 6-1393224-9 6-1393224-1 6-1393224-1 6-1393224-2 6-1393224-3 7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-2 8-1393224-3 8-1393224-4
24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 48VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC	4-1393224-9 5-1393224-1 5-1393224-2 5-1393224-5 5-1393224-8 5-1393224-9 6-1393224-0 6-1393224-0 6-1393224-2 6-1393224-2 6-1393224-3 7-1393224-9 8-1393224-2 8-1393224-2 8-1393224-3 8-1393224-4
48VDC 5VDC 12VDC 24VDC 5VDC 12VDC 24VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 12VDC 24VDC 12VDC 24VDC 12VDC 24VDC 24VDC	5-1393224-1 5-1393224-2 5-1393224-2 5-1393224-8 5-1393224-9 6-1393224-0 6-1393224-0 6-1393224-0 6-1393224-2 6-1393224-2 6-1393224-3 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-4
5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 48VDC 12VDC 24VDC 24VDC 24VDC 24VDC 24VDC 24VDC 24VDC 24VDC	5-1393224-2 5-1393224-5 5-1393224-8 5-1393224-9 6-1393224-0 6-1393224-0 6-1393224-0 6-1393224-2 6-1393224-3 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-3 8-1393224-4
12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 24VDC 24VDC 12VDC 24VDC 24VDC	5-1393224-5 5-1393224-9 6-1393224-0 6-1393224-0 6-1393224-1 6-1393224-2 6-1393224-2 6-1393224-3 7-1393224-9 8-1393224-2 8-1393224-2 8-1393224-3 8-1393224-4
24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 24VDC 24VDC 12VDC 24VDC 24VDC	5-1393224-8 5-1393224-9 6-1393224-0 6-1393224-1 6-1393224-2 6-1393224-3 7-1393224-9 8-1393224-9 8-1393224-2 8-1393224-3 8-1393224-4
48VDC 5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 24VDC 12VDC 24VDC 24VDC	5-1393224-9 6-1393224-0 6-1393224-1 6-1393224-2 6-1393224-2 6-1393224-3 7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-4
5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 12VDC 12VDC 24VDC 24VDC	6-1393224-0 6-1393224-1 6-1393224-2 6-1393224-2 7-1393224-6 7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-4
12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 12VDC 12VDC 24VDC 24VDC	6-1393224-1 6-1393224-2 6-1393224-3 7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-4
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48VDC 5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 24VDC 12VDC 24VDC 24VDC	6-1393224-3 7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-2 8-1393224-3 8-1393224-4
5VDC 12VDC 24VDC 48VDC 12VDC 24VDC 12VDC 12VDC 24VDC 24VDC	7-1393224-6 7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-3 8-1393224-4
12VDC 24VDC 48VDC 12VDC 24VDC 12VDC 12VDC 24VDC 24VDC	7-1393224-9 8-1393224-2 8-1393224-3 8-1393224-3 8-1393224-4
24VDC 48VDC 12VDC 24VDC 12VDC 12VDC 24VDC	8-1393224-2 8-1393224-3 8-1393224-4
48VDC 12VDC 24VDC 12VDC 12VDC 24VDC	8-1393224-3 8-1393224-4
12VDC 24VDC 12VDC 24VDC	8-1393224-4
24VDC 12VDC 24VDC	
12VDC 24VDC	
24VDC	8-1393224-8
	8-1393224-9
48VDC	9-1393224-0
5VDC	1-1393225-7
12VDC	1-1393225-9
24VDC	2-1393225-1
48VDC	2-1393225-2
	2-1393225-3
12VDC	2-1393225-6
24VDC	2-1393225-9
48VDC	3-1393225-0
5VDC	5-1419136-2
12VDC	3-1393225-1
	3-1393225-3
	3-1393225-4
24VDC	4-1415400-1
5VDC	1393224-7
12VDC	1393224-9
	1-1393224-2
	1-1393224-3
	1-1393224-4
	1-1393224-6
24VDC	1-1393224-8
	1-1393224-9
24VDC	2-1393224-1
	5VDC 12VDC 24VDC 48VDC 5VDC 12VDC 24VDC 24VDC 24VDC 24VDC

roduct 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	100	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	I STAND	12VDC	1-1956171-4
RY531024R	reflow solderable			24VDC	1-1956171-7

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