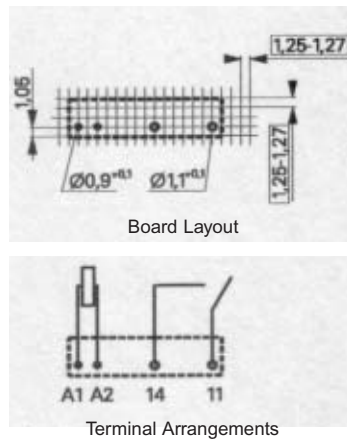
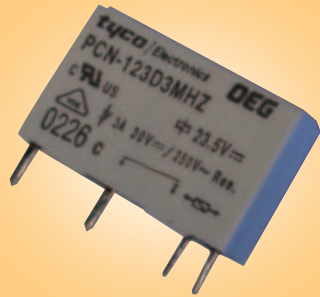


**PCN pcb slim  
3A, SPNO**

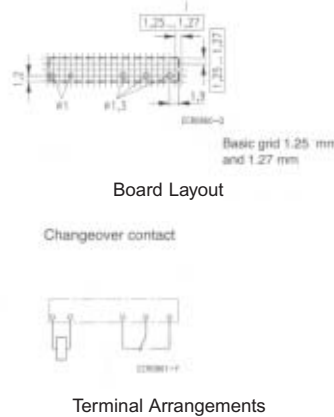


An ultra slim pcb relay only 5mm wide with SPNO contact and a wide switching capability of 3A down to 1mA. This relay is fully sealed and features enhanced insulation voltage.

Contact arrangement	One normally open
Contact material	Silver nickel
Contact rating	3A at 250V ac / 30V dc, 100V dc max switch
Contact load min	1mA at 5 Vdc
Coil resistance. ohm	208 (5V), 1200 (12V), 4800 (24V)
Operate / release time	5/2 ms
Nominal coil power	120 mW
Mechanical switching life	1x10 <sup>5</sup>
Dielectric strength	3000 Vrms
Temperature	-30°C to + 70°C
Approvals	UL, VDE
L = 20, W = 5, H = 12.5	

Stock No.	Manf Ref <sup>1</sup>	Type	Unit Price		
			1-24	25-99	100+
4954120	PCN-105D3MHZ	SPNO-5VDC	1.00	0.90	0.85
4954121	PCN-112D3MHZ	SPNO-12VDC	1.00	0.90	0.85
4954122	PCN-124D3MHZ	SPNO-24VDC	1.00	0.90	0.85

**SNR pcb slim  
6A, SPCO**

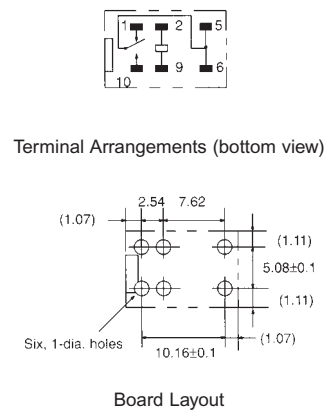


An ultra slim pcb relay only 5mm wide with SPCO contacts and a high switching capability of 6A. This relay is fully sealed and features enhanced insulation voltage. On request this relay is available with 90 deg pcb terminals and gold flashed contacts.

Contact arrangement	Single pole changeover
Contact material	Silver tin oxide (ask for Gold flash ver)
Contact rating	6A at 250V ac / 30V dc
Contact load min	100mA at 12V dc (1mA at 5V dc gold flashed)
Coil resistance. ohm	148 (5V), 848 (12V), 10600 (24V)
Operate / release time	5/2.5 ms
Nominal coil power	170 mW
Mechanical switching life	
Dielectric strength	4000 Vrms
Temperature	-30°C to + 85°C
Approvals	UL, VDE, CSA
L = 28, W = 5, H = 15	

Stock No.	Manf Ref <sup>1</sup>	Type	Unit Price		
			1-24	25-99	100+
4953002	V23092-A1005-A301	SPCO-5VDC	3.00	2.70	2.55
4953001	V23092-A1012-A301	SPCO-12VDC	3.00	2.70	2.55
4953004	V23092-A1024-A301	SPCO-24VDC	3.00	2.70	2.55

**TSC  
1A, SPCO**

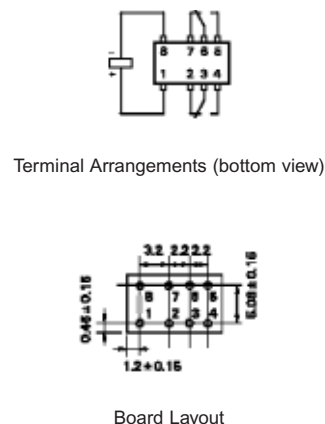
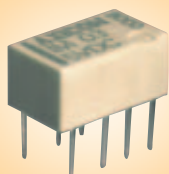


An ultra miniature pcb relay with SPCO contacts and a sensitive coil ideal for space saving applications. This relay is fully sealed.

Contact arrangement	Single pole changeover
Contact material	Gold overlay silver nickel
Contact rating	1A at 120V ac / 24V dc
Contact load min	1mA at 1V dc
Coil resistance. ohm	
Operate / release time	5/2.5ms
Nominal coil power	150mW sensitive
Mechanical switching life	5 million operations
Dielectric strength	1000 Vrms
Temperature	-55°C to + 85°C
Approvals	UL, VDE, CSA
L = 12.3, W = 7.4, H = 9.9	

Stock No.	Manf Ref <sup>1</sup>	Type	Unit Price		
			1-24	25-99	100+
4954115	TSC-105L3H	SPCO-5VDC	1.50	1.35	1.27
4954112	TSC-112L3H	SPCO-12VDC	1.50	1.35	1.27
4954117	TSC-124L3H	SPCO-24VDC	1.50	1.35	1.27

**IM TELECOM  
2A, DPCO**



A fourth generation telecom relay offering very small footprint available in surface mount or through hole terminal. Immersion cleanable. Latching version available.

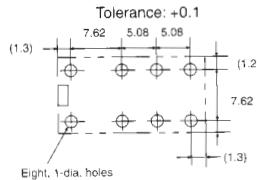
Contact arrangement	Double pole changeover
Contact material	Silver Palladium ruthenium gold plated
Continuous current	2A at 30V dc, 250mA at 230V ac
Contact load min	12V/10mA, 20mV/1mA gold flash or bifurcated
Operate / release time	1/1ms
Nominal coil power	140mW to 12V dc, 200mW 24V dc
Coil resistance.ohm	178 (5V dc), 574 (12V dc), 2880 (24V dc)
Mechanical life	100 million
Dielectric strength	1800 Vrms
Temperature	-55°C to + 85°C
Approvals	VDE, UL, CSA
L = 10.0, W = 6.0, H = 5.65	

Stock No.	Manf Ref <sup>1</sup>	Type	Unit Price		
			1-24	25-99	100+
4954630	IM03TS	DPCO-5VDC THT	3.00	2.70	2.55
4954632	IM06TS	DPCO-12VDC THT	3.00	2.70	2.55
4954634	IM03GR	DPCO-5VDC SURFACE MT	3.00	2.70	2.55
4954636	IM06GR	DPCO-12VDC SURFACE MT	3.00	2.70	2.55

**D2n 400mW Coil BT47 style  
3A, DPCO**



Terminal Arrangements (bottom view)



Board Layout

A BT47/51 style pcb relay with DPCO contacts capable of switching 3A down to dry circuit. This relay is fully sealed.

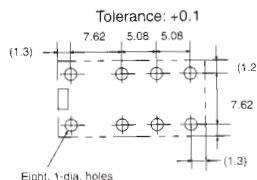
- Contact arrangement Double pole change over
- Contact material Silver nickel gold plated
- Contact rating 3A at 250Vac, 30Vdc, Max dc 250Vdc derated
- Contact load min 10 mV
- Coil resistance.ohm 62 (5V), 360 (12V), 1440 (24V)
- Operate / release time 5/2.5 mS
- Nominal coil power 400 mW
- Mechanical switching life 15 Million
- Dielectric strength 1000 Vrms
- Temperature -25°C to + 60°C
- Approvals ul, vde, csa
- L = 20.3, W = 10.1, H = 11.45

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954139	V23105-A5401-A201	DPCO-5VDC	1.70	1.53	1.45
4954137	V23105-A5403-A201	DPCO-12VDC	1.70	1.53	1.45
4954135	V23105-A5405-A201	DPCO-24VDC	1.70	1.53	1.45

**D2N 150mW Coil BT47 style  
3A, DPCO**



Terminal Arrangements (bottom view)



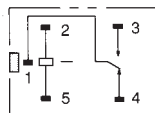
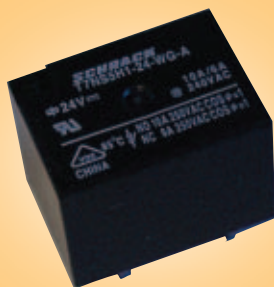
Board Layout

A BT47/51 style pcb relay with sensitive coil, DPCO contacts capable of switching 3A down to dry circuit. This relay is fully sealed.

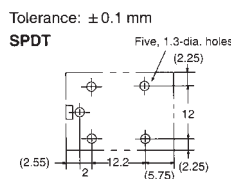
- Contact arrangement Double pole changeover
- Contact material Silver nickel gold plated
- Contact rating 3A at 230Vac, 30Vdc, Max dc 250Vdc derated
- Contact load min 10mV
- Coil resistance.ohm 167 (5V), 960 (12V), 3480 (24V)
- Operate / release time 5/2.5 mS
- Nominal coil power 150 mW
- Mechanical switching life 15 Million
- Dielectric strength 1000 Vrms
- Temperature -25°C to + 60°C
- Approvals ul, vde, csa
- L = 20.3, W = 10.1, H = 11.45

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954140	V23105-A5001-A201	DPCO-5VDC	2.50	2.25	2.12
4954141	V23105-A5003-A201	DPCO-12VDC	2.50	2.25	2.12
4954143	V23105-A5005-A201	DPCO-24VDC	2.50	2.25	2.12

**T7N  
10A, SPCO**



Terminal Arrangements (bottom view)



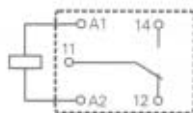
Board Layout

A miniature pcb relay, fully sealed offering competitive solution to switching loads to 10A with max switching to 100 vdc, albeit derated.

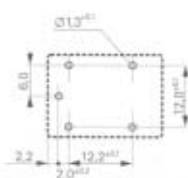
- Contact arrangement Single pole changeover
- Contact material Silver tin oxide
- Contact rating 10A n/o, 3A n/c at 230Vac, 30Vdc, Max dc 100Vdc
- Contact load min 100(6), 400(12V), 1600(24V)
- Coil resistance.ohm 100(6), 400(12V), 1600(24V)
- Operate / release time 10/5 mS
- Nominal coil power 360mW
- Mechanical switching life 10 Million
- Dielectric strength 2000 Vrms
- Temperature -40°C to + 85°C
- Approvals ul, vde, csa
- L = 22.5, W = 16.5, H = 16.9

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4952734	T7NS5D4-6	SPCO-6VDC	0.80	0.72	0.68
4952736	T7NS5D4-12	SPCO-12VDC	0.80	0.72	0.68
4952928	T7NS5D4-24	SPCO-24VDC	0.80	0.72	0.68

**LN Series  
16A, SPCO**



Terminal Arrangements (bottom view)



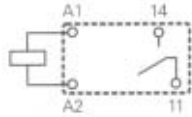
Board Layout

A miniature pcb relay offering a 16A capability with same footprint as T7N series. Flux tight sealed.

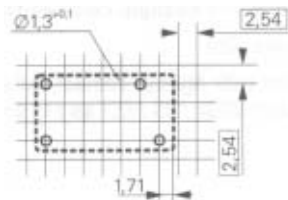
- Contact arrangement Single pole changeover
- Contact material Silver tin oxide
- Continuous current 16A at 230 / 400Vac
- Contact load min 10/5 mS
- Operate / release time 10/5 mS
- Nominal coil power 400mW
- Coil resistance.ohm 90(6Vdc), 360(12Vdc), 1440(24Vdc)
- Mechanical life 10 Million
- Dielectric strength 2000 Vrms
- Temperature -40°C to + 75°C
- Approvals VDE, UL, CSA
- L = 20.2, W = 16.5, H = 20.2

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954672	LN313006	SPCO-6VDC	1.35	1.22	1.15
4954674	LN313012	SPCO-12VDC	1.35	1.22	1.15
4954676	LN313024	SPCO-24VDC	1.35	1.22	1.15

**OJ Series**  
**8A, SPNO**



Terminal Arrangements (bottom view)



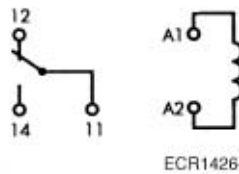
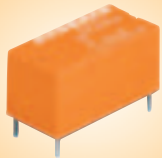
Board Layout

A miniature PCB relay with a sensitive 200mw coil capable of switching 8A. Fluxtight sealed.

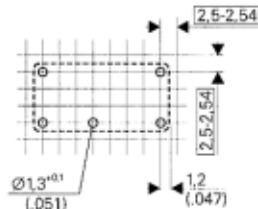
Contact arrangement Single pole normally open  
 Contact material Silver tin oxide  
 Continuous current 8A at 230V ac  
 Contact load min.  
 Operate / release time 15ms / 4ms  
 Nominal coil power 200 mW  
 Coil resistance.ohm 125 (5V), 720 (12V), 2880 (24V)  
 Mechanical life 5 Million  
 Dielectric strength 4000V rms  
 Temperature -30°C to + 85°C  
 Approvals VDE, UL, CSA  
 L = 18.2, W = 10.2, H = 14.7

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954615	OJ-SH-105LMH2	SPNO-5VDC	1.30	1.17	1.11
4954617	OJ-SH-112LMH2	SPNO-5VDC	1.30	1.17	1.11
4954619	OJ-SH-124LMH2	SPNO-24VDC	1.30	1.17	1.11

**PE Series**  
**5A, SPCO**



Terminal Arrangements (bottom view)



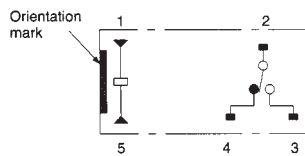
Board Layout

A miniature PCB relay with sensitive 200mW coil capable of switching 5A. Fluxtight sealed. Latching versions available.

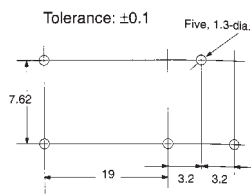
Contact arrangement Single pole changeover  
 Contact material Silver nickel  
 Continuous current 5A at 230 / 400V ac  
 Contact load min.  
 Operate / release time 5ms / 2ms  
 Nominal coil power 200 mW  
 Coil resistance.ohm 125 (5V), 685 (12V), 2725 (24V)  
 Mechanical life 15 Million  
 Dielectric strength 4000V rms  
 Temperature -40°C to + 85°C  
 Approvals VDE, UL, CSA  
 L = 20, W = 10, H = 10

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954620	PEO14005	SPCO-5VDC	1.35	1.22	1.15
4954622	PEO14012	SPCO-12VDC	1.35	1.22	1.15
4954624	PEO14024	SPCO-24VDC	1.35	1.22	1.15

**RY II Series**  
**8A, SPCO**



Terminal Arrangements (bottom view)



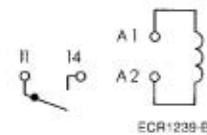
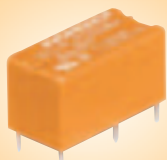
Board Layout

A miniature PCB relay with sensitive 200mW coil capable of switching 8A. Washtight sealed. Gold plated versions and PCB sockets available.

Contact arrangement Single pole changeover  
 Contact material Choice of 3, silver, nickel, standard  
 Continuous current 8A at 400V ac  
 Contact load min.  
 Operate / release time 7ms / 3ms  
 Nominal coil power 220 mW  
 Coil resistance.ohm 112 (5V), 627 (12V), 2350 (24V)  
 Mechanical life  
 Dielectric strength 5000V rms  
 Temperature -40°C to + 70°C  
 Approvals VDE, UL  
 L = 28.5, W = 10.1, H = 12.3

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4952950	RY610005	SPCO-5VDC	1.80	1.62	1.53
4952952	RY610012	SPCO-12VDC	1.80	1.62	1.53
4952954	RY610024	SPCO-24VDC	1.80	1.62	1.53

**RE Series**  
**6A, SP N/O**



Terminal Arrangements (bottom view)



Board Layout

A miniature PCB relay with sensitive 200mW coil capable of switching 6A. Washtight sealed. Gold plated versions available.

Contact arrangement Single pole normally open  
 Contact material Silver cadmium oxide, Silver nickel  
 Continuous current 6A at 230 / 400V ac  
 Contact load min.  
 Operate / release time 5ms / 1ms  
 Nominal coil power 200 mW  
 Coil resistance.ohm 125 (5V), 720 (12V), 2880 (24V)  
 Mechanical life 30 Million  
 Dielectric strength 4000V rms  
 Temperature -30°C to + 70°C  
 Approvals VDE, UL, CSA  
 L = 20, W = 10, H = 10.6

Stock No.	Manf Ref'	Type	Unit Price		
			1-24	25-99	100+
4954567	REO30005	SPNO-5VDC	1.35	1.22	1.15
4954568	REO30012	SPNO-12VDC	1.35	1.22	1.15
4954569	REO30024	SPNO-24VDC	1.35	1.22	1.15