



The Best Relaytion



W11 Relay





108-98010 Rev. C EC-JM00-0009-03 ECOC: JM10 1. Aug. 04

1 pole PCB relay, non-polarized, Through Hole Type (THT)

Relay types: Non-latching, 1 coil Terminal assignments symmetrical or assymetrical 5- or 6-pin version

Features

- Multi purpose relay
- Small size permitting high packing density
- 1 changeover contact (1 form C / SPDT)
- 200 mW and 450 mW coils
- 1 A and 3 A contacts
- High shock resistance of 30 g
- Ambient temperature for sensitive version up to $85^\circ C$
- Immersion cleanable

Typical applications

- Security devices
- Electric door openers
- Duplex intercommunication systems
- Measurement and controls



European Directive conformance:

W11 relay product conformance according to:

- Directive 2000/53/EC: ELV (End of Life of Vehicles)
 Directive 2002/95/EC: ROHS (Restrictions of the
- use of certain hazardous substances in electrical and electronic equipment)

Compliance is evidenced by written declaration from all raw material suppliers.

Tyco Electronics AXICOM only has responsibility for the proper processing of these materials.

Confirmation is valid for date $codes \ge 0401$

Dimension drawing (in mm)



	V23101-Dxxx-Xxxx			
	mm	inch		
L	15.5±0.1	0.610 ± 0.004		
W	10.5±0.1	0.413 ± 0.004		
H	11.5 - 0.2	0.453 - 0.008		
T	3.5 - 0.2	0.138 - 0.008		

Mounting hole layout View on to the component side of the PCB





Version: 5 pins (without pin no. 6)



Terminal assignment Relay-top view

6 pin version with symmetrical coil assignment V23101-D0 xxx -A xxx



5 pin version with symmetrical coil assignment V23101-D1 x x x -A x x x



6 pin version with asymmetrical coil assignment V23101-D0 x x x -B x x x



5 pin version with asymmetrical coil assignment V23101-D1 x x x -B x x x





Coll D	ata (value	es at 23°C)				Ordering Info	prmation
Nominal	Operate/set v	voltage range	Release/	Coil	Coil	Relay	Tyco part
voltage			reset voltage	power	Resistance	code	number
Unom			Minimum				
	Minimum	Maximum					
	voltage U_{\min}	voltage $U_{\rm max}$					
Vdc	Vdc	Vdc	Vdc	mW	$\Omega / \pm 10\%$		
•	-		t, 450 mW nom. P	•			
1.5	1.3	2.6	0.15	375	6	V23101-D0001-A201	0-1393779-
3	2.1	4.7	0.30	450	20	V23101-D0002-A201	0-1393779-
5 6	3.5 4.2	7.9	0.50 0.60	446 450	56 80	V23101-D0003-A201 V23101-D0004-A201	0-1393779- 0-1393779-
9	6.3	9.5	0.80	450	180	V23101-D0004-A201 V23101-D0005-A201	1-1393779-
12	8.4	14.2	1.20	450	320	V23101-D0005-A201 V23101-D0006-A201	1-1393779-
24	16.8	38.0	2.40	450	1280	V23101-D0007-A201	1-1393779-
		Letter and the second sec	nt, 450 mW nom. I				1-1333773-
•					-	V23101-D0001-B201	0 1202770
1.5	1.3	2.6	0.15	375	6		0-1393779-
<u>3</u> 5	2.1 3.5	4.7	0.30 0.50	<u>450</u> 446	<u>20</u> 56	V23101-D0002-B201 V23101-D0003-B201	0-1393779- 0-1393779-
6	4.2	7.9 9.5	0.60	446	80	V23101-D0003-B201 V23101-D0004-B201	1-1393779-
9	6.3	9.5	0.80	450	180	V23101-D0004-B201 V23101-D0005-B201	1-1393779-
12	8.4	14.2	1.20	450	320	V23101-D0005-B201	1-1393779-
24	16.8	38.0	2.40	450	1280	V23101-D0007-B201	2-1393779-
			t, 450 mW nom. P		-		2-1000770-
•	-	-	I	•			
12	8.4	19.0	0.20	450	320	V23101-D0006-A301	4-1419172-4
pin versior	n with asymetric	cal coil assignmei	nt, 450 mW nom. I	Power consum	otion, AgNi contac	ets	
5	3.5	7.9	0.50	446	56	V23101-D0003-B301	0-1393779-
12	8.4	19.0	1.20	450	320	V23101-D0006-B301	1-1393779-
24	16.8	38.0	2.40	450	1280	V23101-D0007-B301	2-1393779-
pin versior	n with symetrica	al coil assignment	t, 450 mW nom. Pe	ower consump	tion, AgNi+Au con	tacts	
5	3.5	7.9	0.50	446	56	V23101-D0003-A401	0-1422028-2
12	8.4	19.0	1.20	450	320	V23101-D0006-A401	0-1422028-
24	16.8	38.0	2.40	450	1280	V23101-D0007-A401	0-1422028-
pin versior	n with asymetrie	cal coil assignmei	nt, 450 mW nom. I	Power consum	otion, AgNi+Au co	ntacts	
12	8.4	19.0	1.20	450	320	V23101-D0006-B401	0-1422028-4
24	16.8	38.0	2.40	450	1280	V23101-D0007-B401	0-1422028-
i pin versior	n with symetrica	al coil assignment	t, 450 mW nom. P	ower consump	tion, AgPd+Au cor	ntacts	
12	8.4	19.0	1.20	450	320	V23101-D1006-A201	4-1393779-
pin versior	n with asymetric	cal coil assignmer	nt, 450 mW nom. I	Power consum	otion, AgPd+Au co	ontacts	
5	3.5	7.9	0.50	446	56	V23101-D1003-B201	4-1393779-
	8.4	19.0	1.20	450	320	V23101-D1006-B201	4-1393779-2
12	0.4		1.20	400	320	120101010000201	
12 24	16.8	38.0	2.40	450	1280	V23101-D1007-B201	0-1413012-
24	16.8	38.0		450	1280	V23101-D1007-B201	
24	16.8	38.0	2.40	450	1280	V23101-D1007-B201	0-1413012-
24 5 pin versior 12	16.8 n with symetrica 8.4	38.0 al coil assignment 19.0	2.40 t, 450 mW nom. P o	450 ower consump 450	1280 tion, AgNi+Au con 320	V23101-D1007-B201 tacts V23101-D1006-A401	
24 5 pin versior 12	16.8 n with symetrica 8.4	38.0 al coil assignment 19.0	2.40 t, 450 mW nom. P 1.20	450 ower consump 450	1280 tion, AgNi+Au con 320	V23101-D1007-B201 tacts V23101-D1006-A401	0-1413012-
24 pin versior 12 pin versior 12	16.8 n with symetrica 8.4 n with asymetric 8.4	38.0 al coil assignment 19.0 cal coil assignmen 19.0	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I	450 ower consump 450 Power consum 450	1280 tion, AgNi+Au con 320 otion, AgNi+Au co 320	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401	0-1413012-
24 5 pin version 12 5 pin version 12 6 pin version	16.8 n with symetrica 8.4 n with asymetric 8.4 n with symetrica	38.0 al coil assignment 19.0 cal coil assignmen 19.0 al coil assignment	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P	450 ower consump 450 Power consum 450 ower consump	1280 tion, AgNi+Au con 320 otion, AgNi+Au co 320 tion, AgPd+Au cor	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts	0-1413012- 1-1422028- 1-1422028-
24 pin versior 12 pin versior 12 pin versior 1.5	16.8 n with symetrica 8.4 n with asymetric 8.4 n with symetrica 1.1	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15	450 ower consump 450 Power consump 450 ower consump 188	1280 tion, AgNi+Au con 320 otion, AgNi+Au co 320 tion, AgNi+Au co 12	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779-
24 pin versior 12 pin versior 12 pin versior 1.5 3	16.8 n with symetrica 8.4 n with asymetrica 8.4 n with symetrica 1.1 2.3	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6 7.1	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15 0.30	450 ower consump 450 Power consump 450 ower consump 188 200	1280 tion, AgNi+Au con 320 otion, AgNi+Au con 320 tion, AgNi+Au con 12 45	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201 V23101-D0102-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779- 2-1393779-
24 i pin versior 12 i pin versior 12 i pin versior 1.5 3 5	16.8 n with symetrica 8.4 n with asymetrica 8.4 n with symetrica 1.1 2.3 3.8	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6 7.1 11.6	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15 0.30 0.50	450 ower consump 450 Power consump 450 ower consump 188 200 208	1280 tion, AgNi+Au con 320 ption, AgNi+Au co 320 tion, AgPd+Au cor 12 45 120	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201 V23101-D0102-A201 V23101-D0103-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779- 2-1393779- 2-1393779-
24 5 pin versior 12 5 pin versior 12 6 pin versior 1.5 3 5 6	16.8n with symetrica8.4n with asymetrica8.4n with symetrica1.12.33.84.5	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6 7.1 11.6 14.2	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15 0.30 0.50 0.60	450 ower consump 450 Power consump 450 ower consump 188 200 208 200	1280 tion, AgNi+Au con 320 ption, AgNi+Au co 320 tion, AgPd+Au cor 12 45 120 180	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201 V23101-D0102-A201 V23101-D0103-A201 V23101-D0104-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779- 2-1393779- 2-1393779- 2-1393779-
24 5 pin version 12 5 pin version 12 6 pin version 1.5 3 5 6 9	16.8 n with symetrica 8.4 n with asymetrica 8.4 n with symetrica 1.1 2.3 3.8 4.5 6.8	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6 7.1 11.6 14.2 21.2	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15 0.30 0.50 0.60 0.90	450 ower consump 450 Power consump 450 ower consump 188 200 208 200 203	1280 tion, AgNi+Au con 320 ption, AgNi+Au co 320 tion, AgPd+Au cor 12 45 120 180 400	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201 V23101-D0102-A201 V23101-D0103-A201 V23101-D0105-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779- 2-1393779- 2-1393779- 2-1393779- 3-1393779-
24 5 pin versior 12 5 pin versior 12 6 pin versior 1.5 3 5 6	16.8n with symetrica8.4n with asymetrica8.4n with symetrica1.12.33.84.5	38.0 al coil assignment 19.0 cal coil assignment 19.0 al coil assignment 3.6 7.1 11.6 14.2	2.40 t, 450 mW nom. P 1.20 nt, 450 mW nom. I 1.20 t, 200 mW nom. P 0.15 0.30 0.50 0.60	450 ower consump 450 Power consump 450 ower consump 188 200 208 200	1280 tion, AgNi+Au con 320 ption, AgNi+Au co 320 tion, AgPd+Au cor 12 45 120 180	V23101-D1007-B201 tacts V23101-D1006-A401 ntacts V23101-D1006-B401 ntacts V23101-D0101-A201 V23101-D0102-A201 V23101-D0103-A201 V23101-D0104-A201	0-1413012- 1-1422028- 1-1422028- 2-1393779-



Coil D	ata (value	s at 23°C	.)			Ordering Info	ormation
Nominal voltage <i>U</i> nom	Operate/set v	voltage range	Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
	Minimum	Maximum					
	voltage U _{min}	voltage $U_{\rm max}$					
Vdc	Vdc min	Vdc	Vdc	mW	$\Omega / \pm 10\%$		
6 pin versior	with asymetric	cal coil assignme	ent, 200 mW nom.	Power consump	tion, AgPd+Au co	ontacts	
1.5	1.1	3.6	0.15	188	12	V23101-D0101-B201	2-1393779-3
3	2.3	7.1	0.30	200	45	V23101-D0102-B201	2-1393779-5
5	3.8	11.6	0.50	208	120	V23101-D0103-B201	2-1393779-7
6	4.5	14.2	0.60	200	180	V23101-D0104-B201	2-1393779-9
9	6.8	21.2	0.90	203	400	V23101-D0105-B201	3-1393779-1
12	9.0	28.0	1.20	206	700	V23101-D0106-B201	3-1393779-3
24	18.0	56.0	2.40	206	2800	V23101-D0107-B201	3-1393779-8
6 pin versior	with symetrica	al coil assignmei	nt, 200 mW nom. P	ower consumpti	on, AgNi contact	ts	
12	9.0	28.0	1.20	206	700	V23101-D0006-A301	0-1422037-2
24	18.0	56.0	2.40	206	2800	V23101-D0007-A301	3-1393779-7
· ·	-		ent, 200 mW nom.	•	-		0 1000770 4
12	9.0	28.0	1.20	206	700	V23101-D0106-B301	3-1393779-4
6 pin versior	with symetrica	al coil assignme	nt, 200 mW nom. P	ower consumpti	on, AgNi+Au con	tacts	
5	3.8	11.6	0.50	208	120	V23101-D0103-A401	0-1422028-7
12	9.0	28.0	1.20	203	700	V23101-D0106-A401	0-1422028-8
24	18.0	56.0	2.40	206	2800	V23101-D0107-A401	0-1422028-9
18	13.5	33.0	1.80	200	1620	V23101-D0108-A401	1-1422028-1
6 pin versior	with asymetric	cal coil assignme	ent, 200 mW nom.	Power consump	tion, AgNi+Au co	ntacts	
24	18.0	56.0	2.40	206	2800	V23101-D0107-B401	1-1422028-0
			nt, 200 mW nom. P				1 1422020 0
12	9.0	28.0	1.20	203	700	V23101-D1106-A201	4-1393779-3
24	18.0	56.0	2.40	203	2800	V23101-D1100-A201	4-1393779-6
			ent, 200 mW nom. I		•	•	4-1393779-0
12	9.0	28.0	1.20	203	700	V23101-D1106-B201	4-1393779-4
24	18.0	56.0	2.40	203	2800	V23101-D1100-B201	4-1393779-7
			2.40 ent, 200 mW nom. I		1		
12	9.0	28.0	1.20	203	700	V23101-D1106-B301	4-1393779-5
-			nt, 200 mW nom. P			•	
12	9.0	28.0	1.20	203	700	V23101-D1106-A401	1-1422028-4
5 pin versior	with asymetric	cal coil assignme	ent, 200 mW nom.	Power consump	tion, AgNi+Au co	ntacts	
12	9.0	28.0	1.20	203	700	V23101-D1106-B401	1-1422028-5



Coil operating range



Ordering Code

Identification of the Relay W11 - 1 changeover contac	V 2 3 1 0 1	
Pin version		
D0 = Standard 6 pins		
D1 = 5-pin version (without pin no	n. 6)	
Coil number		
Standard version	Sensitive version	
001 = 1.5 V nominal voltage	101 = 1.5 V nominal voltage	
002=3 V	102=3 V	
003 = 5 V	103 = 5 V	
004 = 6 V	104 = 6 V	
005 = 9 V	105 = 9 V	
006 = 12 V	106 = 12 V	
007 = 24 V	107 = 24 V	

Contact / material

A = Symmetrical coil assignment B = Asymmetrical coil assignment

, 3

201 = AgPd, gold plated 301 = AgNi 401 = AgNi, gold plated

Ordering example: V23101-D0104-B401

Small relay W11 - 1 changeover contact, standard pin version (6 pins), sensitive version, coil 6 V nominal voltage, terminal assignment B, contact material AgNi, gold plated.

Note:

Special designs can be carried out to customer specifications. Please contact your local representative.



Contact Data

Number of conta	acts and type	1 changeover contact		
Contact assemb	ly	single contacts		
Contact material	1	AgPd, gold plated	AgNi	
		AgNi, gold plated		
Limiting continu	ous current at max. ambient temperature	1.25 A	3 A	
Maximum switcl	hing current (see load limit diagram)	1.25 A	3 A	
Maximum swich	ting voltage	120 Vdc	120 Vdc	
		125 Vac	125 Vac	
Maximum switcl	hing capacity	30 W / 62.5 VA	72 W / 360 VA	
Thermoelectric p	potential	< 10 µV	< 10 µV	
Initial contact res	sistance / measuring condition: 10 mA / 20 mV	100 m Ω	$100\mathrm{m}\Omega$	
Electrical endura	ince			
standard:	at 24 Vdc / 1.25 A	3 x 10⁵		
	at 24 Vdc / 3 A		2 x 10⁵	
	at 120 Vac / 1.25 A	1.5 x 10⁵		
	at 120 Vac / 3 A		4 x 10 ⁵	
sensitive:	at 24 Vdc / 1.25 A	2 x 10⁵		
	at 24 Vdc / 3 A		1 x 10⁵	
	at 120 Vac / 1.25 A	1 x 10⁵		
	at 120 Vac / 3 A		3 x 10⁵	
Mechanical end	urance	typ. 10 ⁷ ope	rations	

Max. DC load breaking capacity



Insulation	
Insulation resistance at 500 VDC	> 10 ⁹ Ω
Dielectric test voltage (1 min)	
between coil and contacts	1000 Vrms
between open contacts	750 Vrms

High Frequency Data			
Capacitance			
between coil and contacts	max. 10 pF		
between open contacts	max. 2 pF		



General data

General data			
Operate time at U_{nom} typ. / max.	5 ms / 7 ms		
Release time without diode in parallel, typ. / max.	3 ms / 5 ms		
Release time with diode in parallel, typ. / max.	10 ms / 12 ms		
Bounce time at closing contact, typ. / max.	1 ms / 2 ms NO contact		
	5 ms / 10 ms at NC conctact		
Maximum switching rate without load	20 operations/s		
Ambient temperature	-40° C +70° C/85° C, standard / sensitive coil		
Thermal resistance	< 125 K/W		
Maximum permissible coil temperature	130° C		
Vibration resistance (function)	10 G, 10 to 200 Hz		
Shock resistance, half sinus, 11 ms	30 G (function)		
	100 G (damage)		
Degree of protection	immersion cleanable, IP 67		
Needle flame test	application time 20 s, burning time < 15 s		
Mounting position	any		
Processing information	Ultrasonic cleaning is not recommended		
Weight (mass)	max. 4 g		
Terminal coating	SnCu 0,7		
Resistance to soldering heat	260° C / 10 s		

All data refers to 23 $^{\circ}$ C unless otherwise specified.

Packing

Dimensions in mm

Tube dimensions - 25 relays per tube, 625 relays per box





IM Relays

4th generation slim line – low profile polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 1.5... 24 V, coil power consumption of 140... 200 mW, latching relays with 1 coil 100 mW. The IM relay is available as through hole and surface mount type (J-Legs and Gull Wings) and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV – 2 / 10 μ s) and FCC part 68 (1,5 kV – 10 / 160 μ s). The IM relay is CECC/IECQ approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. 10 x 6 mm board space and 5.65 mm height.

P2 Relays

 3^{rd} generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 24 V, coil power consumption 140 mW, latching relays with 1 coil 70 mW. The P2 relay is available as through hole or surface mount type and capable to switch currents up to 5 A. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV - 2 / 10 μ s) and FCC part 68 (1,5 kV - 10 / 160 μ s). Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

FX Relays

 3^{rd} generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 3 ... 48 V, coil power consumption of 80 ... 260 mW for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW. The FX2 relay is available as through hole type and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV $^-$ 2 / 10 μ s) and FCC part 68 (1,5 kV $^-$ 10 / 160 μ s). The FX2 is CECC/ IECQ approved and certified in accordance with IEC/EN 60950 and UL 1950. Dimensions approx. 15 x 7,5 mm board space and 10,7 mm height.

FT2 / FU2 Relays

 3^{rd} generation non polarized, non latching 2 c/o telecom relay with bifurcated contacts. Nominal voltage range from 3 ... 48 V, coil power consumption 200 ... 300 mW. Most sensitive 48 V relay. Available as through hole and surface mount type. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV – 2 / 10 μ s) and FCC part 68 (1,5 kV – 10 / 160 μ s). The FT2/FU2 is CECC/IECQ approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

FP2 Relays

 $3^{\rm rd}$ generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 48 V, coil power consumption of 80 ... 260 mW for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW.. The FP2 relay is available as through hole type and capable to switch loads up to 30 W/62,5 VA. Dielectric strength fulfills FCC part 68 (1,5 kV – 10 / 160 μ s). The FP2 is CECC/IECQ approved. Dimensions approx. 14 x 9 mm board space and 5 mm height.

MT2 / MT4

 2^{nd} generation non polarized, non latching 2 c/o and 4 c/o telecom and signal relay with bifurcated contacts. Nominal voltage range from 4.5 ... 48 V, coil power consumption 150/200/300/400 and 550 mW, and 300 mW (MT4). Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV – 10 / 160 µs) for both

and the Bellcore requirements according GR 1089 (2,5 kV – 2 / 10 $\mu s)$ the MT4 only.

Dimensions MT2 approx. 20 x 10 mm board space and 11 mm height, MT4 approx. 20 x 15 mm board space and 11 mm height.

D2n Relays

 2^{nd} generation non polarized 2 c/o relay for telecom and various other applications. Nominal voltage range from 3 ... 48 V, coil power consumption from 150 500 mW. The D2n relay is capable to switch currents up to 3 A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV - 10 / 160 µs). Dimensions approx. 20 x10 mm board space and 11,5 mm height.

P1 Relays

Extremely sensitive, polarized 1 c/o relay with bifurcated contacts for a wide range of applications, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 24 V, coil power consumption 65 mW, latching relays with 1 coil 30 mW. The P1 relay is available as through hole or surface mount type and capable to switch currents up to 1 A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV – 10 / 160 μ s). Dimensions approx. 13 x 7,6 mm board space and 7 mm height for THT or 8 mm height for SMT version.

W11 Relays

Low cost, non polarized 1 c/o relay for various applications. Nominal voltage range from 3 ... 24 V, coil power consumption 450 mW, sensitive versions 200 mW. The W11 relay is capable to switch currents up to 3 A. Dielectric strength 1000 Vrms. Dimensions approx. 15,6 x 10,6 mm board space and 11,5 mm height.

Reed Relays

High sensitive, non polarized relay for telecom and various other applications, available with 1 n/o, 2 n/o or 1c/o contacts. Nominal voltage range from 5 ... 24 V, coil power consumption 50...280 mW for 1 n/o and 125 ... 280 mW for 2 n/o or 1 c/o versions. Reedrelays are available in DIP or SIL housing and capable to switch currents up to 0,5 A. Integrated diode and/or electrostatic shield optional. Dielectric strength 1500 Vdc. Dimensions approx. 19,3 x 7 mm board space and 5 ... 7,5 mm height for DIP or 19,8 x 5 mm board space and 7,8 mm height for SIL version.

Cradle Relays

Extremely reliable and mature relay family of 1st generation for various signal switching applications. Available as non polarized, polarized / latching and relay with AC coil. The benefit is the possibility of combining various contact sets from 1 up to 6 poles, single and bifurcated contacts, different contact materials with a coil voltage range from 1,5 Vdc to 220 Vac. Cradle relays are available as dust protected and hermetically sealed versions, with plug in or solder terminals and are capable to switch currents up to 5 A. Forcibly guided (linked) contact sets optional. Dielectric strength 500 Vrms. Dimensions from approx. 19 x 24 to 19x35 mm board space and 30 mm height.

Other Relays

We offer a variety of different relay families for maintenance and replacement purposes. These relays are up to 60 years old now, such as Card Relay SN (V23030 / V23031 series), Small General Purpose Relay (V23006 series), Small Polarized Relay (V23063 ... V23067 and V23163 ... V23167 series). Accessories like sockets, hold down springs, etc. optional.







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