





108-98004 • Sep. 08 Rev. G • ECOC: JM10



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### FT2/FU2 Relay

### Disclaimer

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The dimensions in this datasheet are for reference purpose only and are subject to change without notice. Specifications are subject to change without notice.



UL 508 File No. E 111441 UL 60950

IEC/EN60950

IEC Ref. Cert. No. 3268

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2 pole telecom/signal relay Through Hole Type (THT) Surface Mount Typ (SMT) Non-polarized, non-latching 1 coil

ROHS compliant (Directive 2002/95/EC) as per product date code 0427.

### Features

- · Telecom/signal relay (dry circuit, test access, ringing)
- Slim line 15 x 7.5 mm, 0.59 x 0.295 inch
- Switching current 2 A
- 2 changeover contacts (2 form C / DPDT)
- · Bifurcated contacts
- High sensitive 24 V and 48 V coil versions
- Meets Telcordia GR 1089, FCC Part 68 and ITU-T K20 ≥ 2500 V between coil and contacts

### **Typical applications**

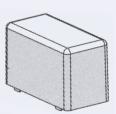
- Communications equipment Linecard application – analog, ISDN, xDSL, PABX Voice over IP
- Office and business equipment
- · Measurement and control equipment
- Consumer electronics Set top boxes, HiFi
- · Medical equipment

### **Options**

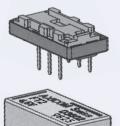
- High Dielectric Version (HDV) with > 6000 V surge voltage between coil and contacts
- Suitable for 125 °C ambient temperature

#### Insulation category

Supplementary insulation according IEC / EN 60950Working voltage $\leq$  300 VrmsMains supply voltage $\leq$  250 VrmsRepetitive peak voltage1500 VPollution degreeInternal: 1External: 2External: 2Flammability classificationV-0Maximum operating temperature85 °C











# Dimensions

### Dimensions in mm

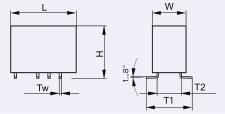
108-98004 Rev. G

	FT2	ТНТ	FU2 SMT lo	ng terminals	FU2 SMT short terminals		
	mm	inch	mm	inch	mm	inch	
L	$15.0\pm0.05$	$0.590 \pm 0.002$	$15.0 \pm 0.05$	$0.590 \pm 0.002$	$15.0\pm0.05$	$0.590 \pm 0.002$	
W	$\textbf{7.5}\pm\textbf{0.05}$	$0.295 \pm 0.002$	$7.5\pm0.05$	$0.295 \pm 0.002$	$\textbf{7.6} \pm \textbf{0.05}$	$0.295 \pm 0.002$	
н	$9.6\pm0.03$	$0.377 \pm 0.001$	$10.0\pm0.15$	$0.393 \pm 0.006$	$10.0\pm0.15$	$0.393 \pm 0.006$	
Т	$\textbf{3.30}\pm\textbf{0.30}$	$0.129 \pm 0.011$	N/A	N/A	N/A	N/A	
T1	N/A	N/A	$9.2\pm0.2$	$0.362 \pm 0.008$	$7.5\pm0.2$	$0.295 \pm 0.008$	
T2	5.08	0.200	5.08	0.200	5.08	0.200	
Tw	0.50	0.020	0.50	0.020	0.50	0.020	
S	$0.35\pm0.03$	$0.013 \pm 0.001$	N/A	N/A	N/A	N/A	

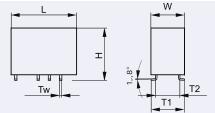
### FT2: THT Version

### FU2: SMT Version

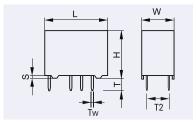
### Long terminals (W)



### Short terminals (N)

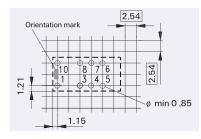


Coplanarity ≤ 0.1mm



### Mounting hole layout

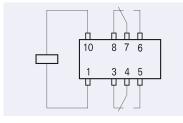
View onto the component side of the PCB (top view)



### **Terminal assignment**

Relay - top view

Non-latching 1 coil not energized condition

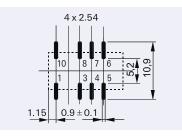


Coplanarity ≤ 0.1mm

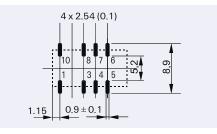
### Solder pad layout

View onto the component side of the PCB (top view)

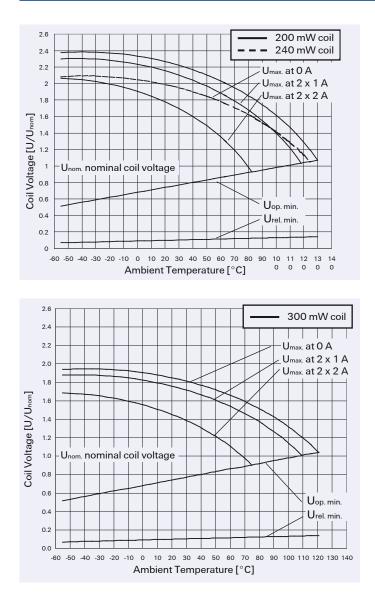
### Long terminals



Short terminals



# Coil Operating Range



Unom	=	Nominal	coil	voltage

- Umax. = Upper limit of the operative range of the coil voltage (limiting voltage) when coils are continously energized
- Uop. min. = Lower limit of the operative range of the coil voltage (reliable operate voltage)
- Urel. min. = Lower limit of the operative range of the coil voltage (reliable release voltage)



# Coil Data (values at 23 °C)

# **Ordering Information**

Nominal voltage Unom	Operate/set voltage range		Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
	Minimum voltage Umin	Maximum voltage Umax					
Vdc	Vdc	Vdc	Vdc	mW	$\Omega$ / ± 10 %		

### **Sensitive Version**

THT non-latching	g						
3	2.25	6.8	0.30	200	45	D3421	1462035-9
4	3.00	9.0	0.40	200	80	D3429	1-1462035-9
4.5	3.38	10.1	0.45	200	101	D3422	1-1462035-0
5	3.75	11.2	0.50	200	125	D3423	1-1462035-1
6	4.50	13.5	0.60	200	180	D3424	1-1462035-2
9	6.75	20.3	0.90	200	405	D3425	1-1462035-3
12	9.00	27.0	1.20	200	720	D3426	1-1462035-4
24	18.00	47.5	2.40	240	2400	D3427	1-1462035-7
48	36.00	95.0	4.80	240	9600	D3428	1-1462035-8

#### SMT Long Terminals, non-latching

		·					
3	2.25	6.8	0.30	200	45	D3521W	1-1462036-8
4	3.00	9.0	0.40	200	80	D3529W	3-1462036-1
4.5	3.38	10.1	0.45	200	101	D3522W	2-1462036-0
5	3.75	11.2	0.50	200	125	D3523W	2-1462036-2
6	4.50	13.5	0.60	200	180	D3524W	2-1462036-4
9	6.75	20.3	0.90	200	405	D3525W	2-1462036-6
12	9.00	27.0	1.20	200	720	D3526W	2-1462036-8
24	18.00	47.5	2.40	240	2400	D3527W	9-1462036-1
48	36.00	95.0	4.80	240	9600	D3528W	9-1462036-5

#### SMT Short Terminals, non-latching

Sivir Short remindis, normatering											
3	2.25	6.8	0.30	200	45	D3521N	1-1462036-7				
4	3.00	9.0	0.40	200	80	D3529N	3-1462036-0				
4.5	3.38	10.1	0.45	200	101	D3522N	1-1462036-9				
5	3.75	11.2	0.50	200	125	D3523N	2-1462036-1				
6	4.50	13.5	0.60	200	180	D3524N	2-1462036-3				
9	6.75	20.3	0.90	200	405	D3525N	2-1462036-5				
12	9.00	27.0	1.20	200	720	D3526N	2-1462036-7				
24	18.00	47.5	2.40	240	2400	D3527N	2-1462036-9				
48	36.00	95.0	4.80	240	9600	D3528N	9-1462036-3				

Further coil versions are available on request.



# Coil Data (values at 23 °C)

# **Ordering Information**

Nominal voltage Unom	voltage		Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
	Minimum voltage Umin	Maximum voltage Umax					
Vdc	Vdc	Vdc	Vdc	mW	Ω <b>/</b> ±10%		

### **High Dielectric Version**

THT non-latching	THT non-latching, Sensitive Version											
3	2.25	6.80	0.30	200	45	D3491L	2-1462035-7					
5	3.75	11.20	0.50	200	125	D3493L	2-1462035-8					
12	9.00	27.00	1.20	200	720	D3496	2-1462035-4					
24	18.00	47.50	2.40	240	2400	D3497	2-1462035-5					

#### SMT Short Terminals, non-latching, Sensitive Version

3	2.25	6.80	0.30	200	45	D3591N	7-1462035-7
5	3.75	11.20	0.50	200	125	D3593N	7-1462035-8
12	9.00	27.00	1.20	200	720	D3596N	7-1462035-9

#### SMT Long Terminals, non-latching, Sensitive Version

3	2.25	6.80	0.30	200	45	D3591W	9-1462036-7
5	3.75	11.20	0.50	200	125	D3593W	9-1462036-8
12	9.00	27.00	1.20	200	720	D3596W	9-1462036-9

### High Dielectric Version - IEC 60950 (Australia)

#### SMT Short Terminals, non-latching, Standard Version

3	2.25	5.50	0.30	300	30	D3571N	7-1462035-5
5	3.75	9.20	0.50	300	83	D3573N	7-1462035-6
12	9.00	22.10	1.20	300	480	D3576N	7-1462035-3

### SMT Long Terminals, non-latching, Standard Version

3	2.25	5.50	0.30	300	30	D3571W	7-1462035-1
5	3.75	9.20	0.50	300	83	D3573W	7-1462035-2
12	9.00	22.10	1.20	300	480	D3576W	7-1462035-4

Further coil versions are available on request.



# Coil Data (values at 23 °C)

# **Ordering Information**

Nominal voltage Unom	Operate/set voltage range		Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
	Minimum voltage Umin	Maximum voltage Umax					
Vdc	Vdc	Vdc	Vdc	mW	Ω/±10%		

### **Standard Version**

THT non-latchin	g						
3	2.25	5.5	0.30	300	30	D3401	1462035-1
4.5	3.38	8.3	0.45	300	68	D3402	1462035-2
5	3.75	9.2	0.50	300	83	D3403	1462035-3
6	4.50	11.0	0.60	300	120	D3404	1462035-4
9	6.75	16.6	0.90	300	270	D3405	1462035-5
12	9.00	22.1	1.20	300	480	D3406	1462035-6
24	18.00	44.2	2.40	300	1920	D3407	1462035-7
48	36.00	88.3	4.80	300	7680	D3408	1462035-8
CNAT L							

### SMT Long Terminals non-latching

_	citit Long Forthindio Hornatorinig							
	3	2.25	5.5	0.30	300	30	D3401W	1462036-2
	4.5	3.38	8.3	0.45	300	68	D3402W	1462036-4
	5	3.75	9.2	0.50	300	83	D3403W	1462036-6
	6	4.50	11.0	0.60	300	120	D3404W	1462036-8
	9	6.75	16.6	0.90	300	270	D3405W	1-1462036-0
	12	9.00	22.1	1.20	300	480	D3406W	1-1462036-2
	24	18.00	44.2	2.40	300	1920	D3407W	1-1462036-4
	48	36.00	88.3	4.80	300	7680	D3408W	1-1462036-6

### SMT Short Terminals non-latching

3	2.25	5.5	0.30	300	30	D3401N	1462036-1
4.5	3.38	8.3	0.45	300	68	D3402N	1462036-3
5	3.75	9.2	0.50	300	83	D3403N	1462036-5
6	4.50	11.0	0.60	300	120	D3404N	1462036-7
9	6.75	16.6	0.90	300	270	D3405N	1462036-9
12	9.00	22.1	1.20	300	480	D3406N	1-1462036-1
24	18.00	44.2	2.40	300	1920	D3407N	1-1462036-3
48	36.00	88.3	4.80	300	7680	D3408N	1-1462036-5

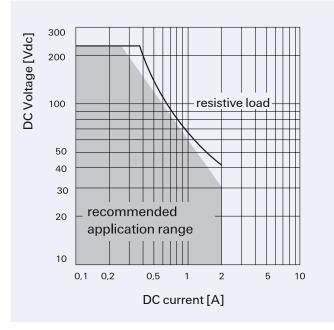
Further coil versions are available on request.



# **Contact Data**

		Standard Version / Sensitive Version / High Dielectric Version		
Number of contacts a	nd type	2 changeover contacts		
Contact assembly		Bifurcated contacts		
Contact material		Palladium-ruthenium, gold covered		
Limiting continuous c	urrent at max. ambient temperature	2 A		
Maximum switching of	current	2 A		
Maximum swichting v	voltage	220 Vdc 250 Vac		
Maximum switching of	capacity	60 W, 62.5 VA		
Thermoelectric poten	tial	< 10 µV		
Minimum switching v	oltage	100 µV		
Initial contact resistan	ice / measuring condition: 10 mA / 20 mV	< <b>50 m</b> Ω		
Electrical endurance at contact application 0 ( $\leq$ 30 mV/ $\leq$ 10 mA) at cable load open end Resistive load at 125 Vdc / 0.24 A - 30 W at 250 Vac / 0.25 A - 62.5 VA at 24 V / 1.25 A - 30 W		min. 2.5 x 10 <sup>6</sup> operations min. 2.0 x 10 <sup>6</sup> operations min. 1.0 x 10 <sup>5</sup> operations min. 1.0 x 10 <sup>5</sup> operations min. 1.0 x 10 <sup>5</sup> operations		
Mechanical enduranc	e	typ. 10 <sup>8</sup> operations		
UL contact ratings		220 Vdc / 0.24 A - 60 W 125 Vdc / 0.24 A - 30 W 250 Vac / 0.25 A - 62.5 VA 125 Vac / 0.5 A - 62.5 VA 30 Vdc / 2 A - 60 W		

# Max. DC Load Breaking Capacity





# Insulation

	Standard Version	High Dielectric Version
Insulation resistance at 500 Vdc	> <b>10</b> <sup>9</sup> Ω	> <b>10</b> <sup>9</sup> Ω
Dielectric test voltage (1 min)		
between coil and contacts	1500 Vrms	4000 Vrms
between adjacent contact sets	1500 Vrms	1800 Vrms
between open contacts	1000 Vrms	1500 Vrms
Surge voltage resistance		
according IEC (10 / 700 µs)		
between coil and contacts	2500 V	6000 V
between adjacent contact sets	1500 V	2500 V
between open contacts	1500 V	2500 V
according to FCC 68 (10 / 160 $\mu$ s)		
between coil and contacts	2500 V	6000 V
between adjacent contact sets	1500 V	2500 V
between open contacts	1500 V	2500 V

# **High Frequency Data**

Capacitance	
between coil and contacts	max. 4 pF
between adjacent contact sets	max. 1 pF
between open contacts	max. 1 pF
RF Characteristics	
Isolation at 100 MHz / 900 MHz	- 30.6 dB / - 13.7 dB
Insertion loss at 100 MHz / 900 MHz	- 0.02 dB / - 0.50 dB
V.S.W.R. at 100 MHz / 900 MHz	1.02 / 1.27

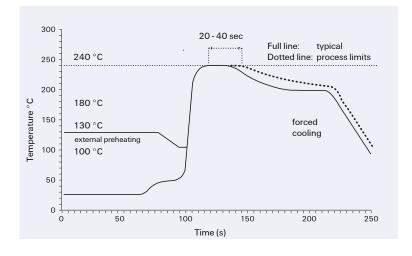
# **General Data**

Operate time at U <sub>nom</sub> typ. / max.	3 ms / 5 ms		
Release time without diode in parallel (non-latching), typ. / max.	2 ms / 5 ms		
Release time with diode in parallel (non-latching), typ. / max.	4 ms / 5 ms		
Bounce time at closing contact, typ. / max.	1 ms / 5 ms		
Maximum switching rate without load	50 operations/s		
Ambient temperature	-55 °C +85 °C		
Thermal resistance	< 125 K/W		
Maximum permissible coil temperature	150 °C		
Vibration resistance (function)	10 G 10 to 500 Hz		
Shock resistance, half sinus, 11 ms	15 G (function) 500 G (damage)		
Degree of protection / Environmental protection	immersion cleanable, IP 67 / RT III / RT V		
Needle flame test	application time 20 s, no burning or glowing		
Mounting position	any		
Processing information	Ultrasonic cleaning is not recommended		
Weight (mass)	max. 3 g		
Terminal surface	SnCu 0.7		
Moisture sensitive level (JDEC J-STD-020B) - SMD types	MSL 3		
Resistance to soldering heat	265 °C / 10 s		

All data refers to 23 °C unless otherwise specified.

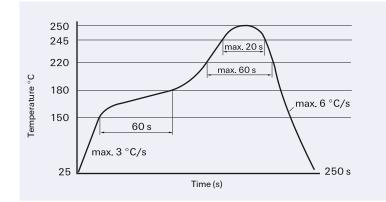
# **Recommended Soldering Conditions**

Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020B

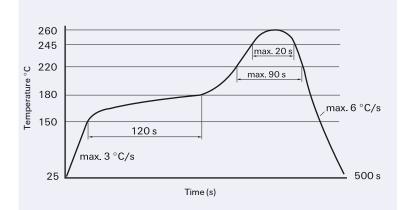


Vapor Phase Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

### **Recommended reflow soldering profile**



Infrared Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)



### **Resistance to soldering heat - Reflow profile**

Infrared Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)



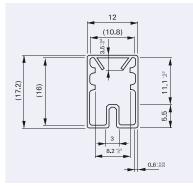
AXICOM Telecom-, Signal and RF Relays

# FT2/FU2 Relay

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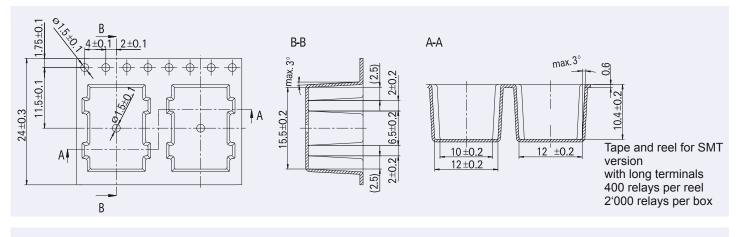
# Packing

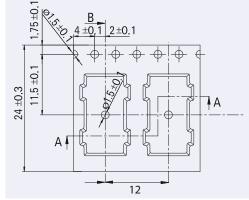
Dimensions in mm

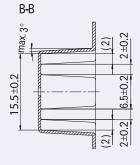


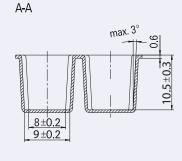


Tube for THT version 50 relays per tube 2'000 relays per box



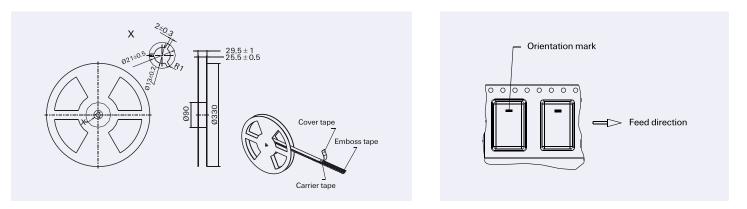






Tape and reel for SMT version with short terminals 500 relays per reel 2'500 relays per box

### **Reel dimension**



### **IM Relays**

**Tyco Electronics** 

Our commitment. Your advantage

4th generation slim line – low profile polarized 2 c/o telecom signal 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 50 ... 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. It is currently the only 2 A rated 4G relay on the market. Dielectric strength fulfills the Telcordia requirements according GR 1089 (2,5 kV – 2/10  $\mu$ s) and FCC part 68 (1,5 kV – 10/160  $\mu$ s). The IM relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950.

Dimensions approx. 10 x 6 mm board space and 5.65 mm height.

#### **P2 Relays**

3rd 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 Telcordia requirements according GR 1089 (2,5 kV – 2 / 10  $\mu$ s) and FCC part 68 (1,5 kV – 10 / 160  $\mu$ s). The P2 relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950. Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

### FX2 Relays

3rd 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 Telcordia requirements according GR 1089 (2,5 kV – 2 / 10  $\mu$ s) and FCC part 68 (1,5 kV – 10 / 160  $\mu$ s). The FX2 relay is tested according CECC/ IECQ and certified in accordance with IEC/EN 60950 and UL 60950. Dimensions approx. 15 x 7,5 mm board space and 10,7 mm height.

### FT2 / FU2 Relays

3rd 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 Telcordia requirements according GR 1089 (2,5 kV – 2 / 10  $\mu$ s) and FCC part 68 (1,5 kV – 10 / 160  $\mu$ s). The FT2/FU2 relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950.

Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

### **FP2 Relays**

3rd 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 60 W/62,5 VA. Dielectric strength fulfills FCC part 68 (1,5 kV – 10 / 160  $\mu$ s). The FP2 is tested according CECC/IECQ approved.

Dimensions approx. 14 x 9 mm board space and 5 mm height.

#### MT2

2nd generation non polarized, non latching 2 c/o telecom and signal relay with bifurcated contacts. Nominal voltage range from 3 ... 48 V, coil power consumption 150/200/300/400 and 550 mW. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV - 10 / 160 µs).

Dimensions approx. 20 x 10 mm board space and 11 mm height.

#### **D2n Relays**

2nd 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 3A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV – 10 / 160  $\mu$ s). Dimensions approx. 20 x10 mm board space and 11 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  $\mu$ 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 5A. 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 series), Small General Purpose Relay (V23006 series), Small Polarized Relay (V23063 ... V23067 and V23163 ... V23167 series). Accessories like sockets, hold down springs, etc. optional.

#### **High Frequency Relays**

HF3 / HF3S / HF6 series RF relays offering excellent RF characteristics in a small package. All HF series relays are suitable for SMD soldering processes. Available as non latching or latching versions with 1 or 2 coils and a nominal coil voltage range from 3 ... 24 V, a coil power consumption of 140 mW or 70 mW (single coil latching types).

**HF3:** Low cost RF relay suitable up to 3 GHz. Impedance 50 and 75 Ohm. 50 W hot switching and 50 W RF power carry capability. Dimensions 14.6 x 7.3 x 10.3 mm.

**HF3S:** High performance, high power RF relay suitable up to 3 GHz, 50 W hot switching and 150 W RF power carry capability. Dimensions  $15 \times 7.6 \times 10.6$  mm.

**HF6:** High performance, high power RF relay suitable up to 6 GHz, 50 W hot switching and 50 W RF power carry capability. Dimensions  $15 \times 7.6 \times 10.6$  mm.





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