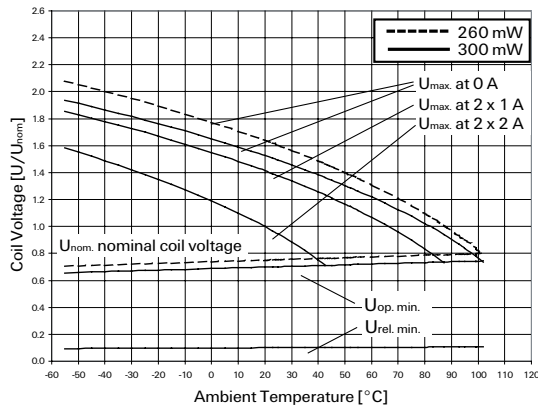


FP2 Relay (Continued)

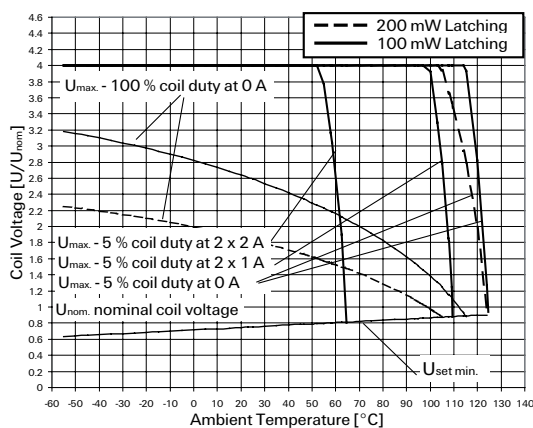
Coil Data (continued)



Coil versions, bistable

Coil code	Rated voltage VDC	Set voltage VDC	Max. set voltage VDC	Reset voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Standard, bistable 1 coil						
41	3	2.25	7.80	-2.25	90	100
42	4.5	3.38	11.70	-3.38	203	100
43	5	3.75	13.00	-3.75	250	100
44	6	4.50	15.60	-4.50	360	100
45	9	6.75	23.50	-6.75	810	100
46	12	9.00	31.30	-9.00	1440	100
47	24	18.00	47.50	-18.00	3840	150
Standard, bistable 2 coils						
61	3	2.10	5.50	-2.10	45	200
62	4.5	3.15	8.30	-3.15	101	200
63	5	3.50	9.20	-3.50	125	200
64	6	4.20	11.10	-4.20	180	200
65	9	6.30	16.80	-6.30	405	200
66	12	8.40	22.10	-8.40	720	200
67	24	16.80	44.30	-16.80	1920	300

All figures are given for coil without pre-energization, at ambient temperature +23°C.



All figures are given for coil without pre-energization, at ambient temperature +23°C.

U_{max} upper limit of the operative range of the coil voltage (limiting voltage) when coils are continuously energized

$U_{op.min}$ lower limit of the operative range of the coil voltage (reliable operate voltage)

$U_{rel.min}$ lower limit of the operative range of the coil voltage (reliable release voltage)

Insulation

Initial dielectric strength	
between open contacts	750V _{rms}
between contact and coil	1000V _{rms}
between adjacent contacts	1000V _{rms}
Initial surge withstand voltage	
between open contacts	1100V
between contact and coil	1500V
between adjacent contacts	1500V
Initial insulation resistance	
between insulated elements	>10 ⁹ Ω
Capacitance	
between open contacts	max. 4pF
between contact and coil	max. 1pF
between adjacent contacts	max. 1pF
Cross talk at 100MHz/900MHz	-40.2dB/-22.3dB
Insertion loss at 100MHz/900MHz	0.03dB/0.25dB
Voltage standing wave ratio (VSWR)	
at 100MHz/900MHz	1.01/1.07

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter

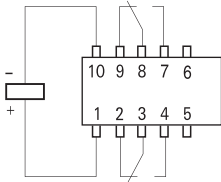
Ambient temperature	-40°C to +85°C
Thermal resistance	<150K/W
Category of environmental protection	
IEC 61810	RT III - immersion cleanable
Degree of protection, IEC 60529	IP 67, immersion cleanable
Vibration resistance (functional)	20g, 10 to 500Hz
Shock resistance (functional), half sinus 11ms	50g
Shock resistance (destructive), half sinus 0.5ms	1500g
Terminal type	PCB-THT
Weight	max. 2g
Resistance to soldering heat THT	Peak value
IEC 60068-2-20	265°C/10s
Ultrasonic cleaning	not recommended
Packaging unit	tube/50 pcs., box/1000 pcs.

FP2 Relay (Continued)

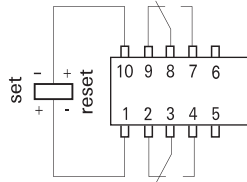
Terminal assignment

TOP view on component side of PCB

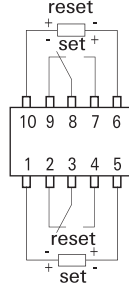
Monostable version



Bistable version, 1-coil



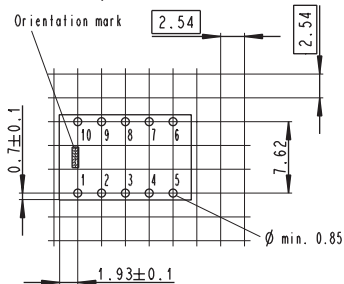
Bistable version, 2-coils



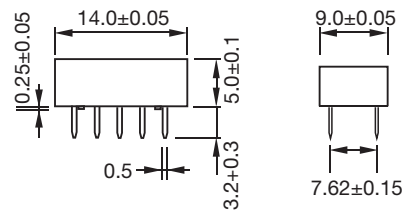
Contacts are shown in reset condition.
Both coils can be used as either set or reset coils.
Contact position might change during transportation and must be reset before use.

PCB layout

TOP view on component side of PCB



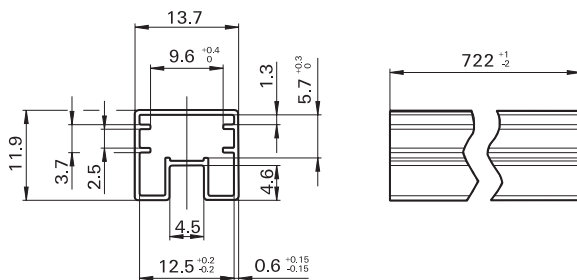
Dimensions



Packing

Tube for THT version

50 relays per tube, 1000 relays per box



FP2 Relay (Continued)

Product code structure

Typical product code **D30 02**
Type
D30 Signal Relays FP2
2 form C, 2 CO

Coil

Coil code: please refer to coil versions table

Performance and coil type

0x, 1x Standard version, monostable

2x High sensitive version, monostable

4x Standard version, bistable 1 coil

6x Standard version, bistable 2 coils

Product code	Arrangement	Perf. type	Coil type	Coil	Part number
D3006	2 form C (2 CO)	Standard	Monostable	3VDC	1-1462033-3
D3004				4.5VDC	1462033-9
D3009				5VDC	1-1462033-4
D3010				9VDC	2-1462033-1
D3002				12VDC	1462033-5
D3012				24VDC	2-1462033-2
D3013	2 form C (2 CO)	High sensitive	Monostable	48VDC	2-1462033-6
D3021				3VDC	3-1462033-2
D3022				4.5VDC	3-1462033-3
D3023				5VDC	3-1462033-4
D3025				9VDC	3-1462033-6
D3026				12VDC	3-1462033-7
D3027	2 form C (2 CO)	Standard	Bistable 1 coil	24VDC	3-1462033-8
D3041				3VDC	4-1462033-0
D3042				4.5VDC	4-1462033-1
D3043				5VDC	4-1462033-2
D3046				12VDC	4-1462033-5
D3047				24VDC	4-1462033-6
D3061	2 form C (2 CO)	Standard	Bistable 2 coils	3VDC	4-1462033-7
D3062				4.5VDC	4-1462033-8
D3063				5VDC	4-1462033-9
D3066				12VDC	5-1462033-4
D3067				24VDC	5-1462033-6

This list represents the most common types and does not show all variants covered by this datasheet.
Other types on request.