

Miniature PCB Relay SDT-R

- 10A contact rating
- UL TV-5 and TV-8 rating
- 1 form A (NO) contact arrangement
- Sensitive and standard coils available

Typical applications Appliances, HVAC, cable TV, monitor display











Approvals

UL E58304, TUV R50138781, VDE 40019832, CQC03001002917

Technical data of approved types on request

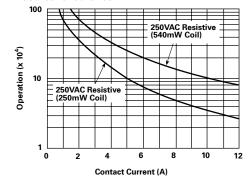
Contact Data	
Contact arrangement	1 Form A (NO)
Rated voltage	250VAC, 30VDC
Max. switching voltage	250VAC, 30VDC
Rated current	5 to 10A
Contact material	AgSnO ₂
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	15/5ms
Electrical endurance	
SDT-LMR(2): 5A, 250VAC res, 70°C	C 100x10 ³ ops.
TV-5, 120VAC 25x10 ³ ops.	
SDT-DMR(2): 10A, 250VAC res, , 70	0°C 100x10 ³ ops.
TV-8, 120VAC 25x103 ops.	
Contact ratings	5 to 10A
Mechanical endurance DC coil	10x10 ⁶ operations

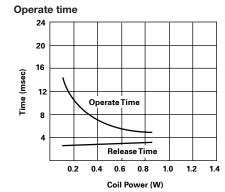
Coil Data		
Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	1	
Coil insulation system according LII	Class F	

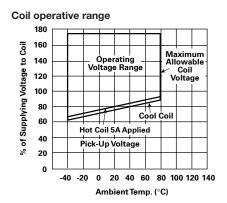
Contact Data (continued)

Coil versions, DC coil						
Coil	Rated	Operate			Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC			mW	
SDT-LM	R & SDT-DM	R2				
003	3	2.25	0.3	36	250	
005	5	3.75	0.5	100	250	
006	6	4.50	0.6	144	250	
009	9	6.75	0.9	324	250	
012	12	9.00	1.2	576	250	
018	18	13.50	1.8	1296	250	
024	24	18.00	2.4	2304	250	
SDT-DM	IR					
003	3	2.25	0.3	16.7	540	
005	5	3.75	0.5	46.3	540	
006	6	4.50	0.6	66.7	540	
009	9	6.75	0.9	150	540	
012	12	9.00	1.2	267	540	
018	18	13.50	1.8	600	540	
024	24	18.00	2.4	1067	540	
048	48	36.00	4.8	4267	540	
SDT-LM						
003	3	2.25	0.3	60	150	
005	5	3.75	0.5	167	150	
006	6	4.50	0.6	240	150	
009	9	6.75	0.9	540	150	
012	12	9.00	1.2	960	150	
018	18	13.50	1.8	2160	150	
024	24	18.00	2.4	3840	150	

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







Electrical endurance



Miniature PCB Relay SDT-R (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	>1.6/3.2mm

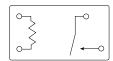
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

www.te.co	www.te.com/customersupport/rohssupportcent			
Ambient temperature	-30°C to +70°C			
Category of environmental protectio	n			
IEC 61810	RTII - flux proof,			
	RTIII - wash tight			
Shock resistance (functional)	10g			
Shock resistance (destructive)	100g			
Weight	11g			
Resistance to soldering heat THT				
IEC 60068-2-20	RTII: 270°C/10s			
	RTIII: 260°C/5s			
Packaging/unit	tube/25 pcs., carton box/1000 pcs.			
	tray/100 pcs., carton box/1000 pcs.			

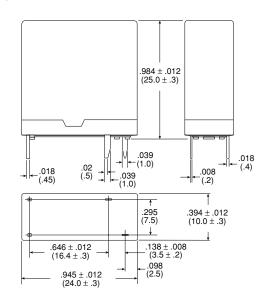
Terminal assignment

Bottom view on solder pins



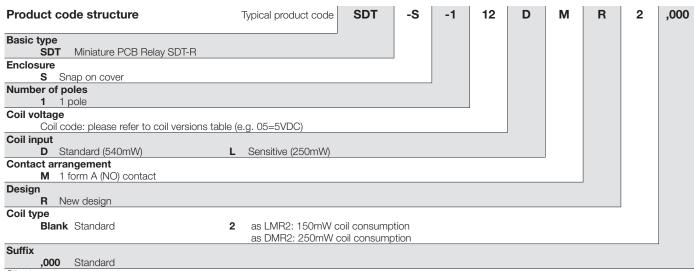
PCB layout 2 - .059 DIA (1.5) 2 - .05 DIA (1.3) 2 - .05 DIA (1.3) 2 - .05 DIA (1.3) 2 - .05 DIA (1.5) 2 - .05 DIA (1.5) 38 ± .004 (1.4 ± .1) - .38 ± .004 (3.5 ± .1)

Dimensions





Miniature PCB Relay SDT-R (Continued)



Other types on request

Product code	Coil	Coil sensitivity	Design	Cont.material	Arrangement	Coil type	Part number
SDT-S-105LMR,000	5VDC	Sensitive	new design	AgSnO ₂	1 form A (NO)	250mW	8-1419125-1
SDT-S-112LMR,000	12VDC					standard coil	9-1419125-9
SDT-S-124LMR,000	24VDC						1419126-2
SDT-S-103DMR,000	3VDC	Standard				540mW coil	1461267-1
SDT-S-105DMR,000	5VDC					standard coil	8-1419125-0
SDT-S-112DMR,000	12VDC						9-1419125-7
SDT-S-118DMR,000	18VDC						1461267-3
SDT-S-124DMR,000	24VDC						1419126-1
SDT-S-148DMR,000	48VDC						1461023-2
SDT-S-105LMR2,000	5VDC	Sensitive				150mW coil	8-1419125-3
SDT-S-109LMR2,000	9VDC						9-1419125-5
SDT-S-105DMR2,000	5VDC	Standard				250mW coil	9-1440002-6
SDT-S-109DMR2,000	9VDC						9-1440002-8

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6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
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7-1393144-5 7-1393767-8
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