

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









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UL E58304, TUV R50138781, VDE 40019832, CQC03001002917

Technical data of approved types on request

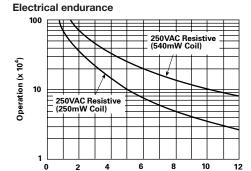
Contact Data				
Contact arrangement	1 Form A (NO)			
Rated voltage	250VAC, 30VDC			
Max. switching voltage	250VAC, 30VDC			
Rated current	5 to 10A			
Contact material	AgSnO ₂			
Min. recommended contact load	100mA at 5VDC			
Frequency of operation	360 ops./h			
Operate/release time max.	15/5ms			
Electrical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

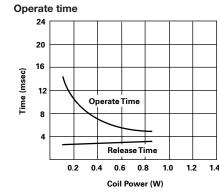
Contact Data (continued)

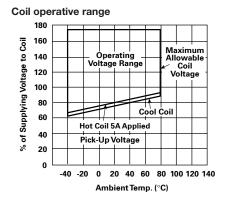
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage resistance		power
	VDC	VDC	VDC	Ω±10%	mW
SDT-LM	R & SDT-DM	R2			
003	3	2.25	0.3	36	250
005	5	3.75	0.5	100	250
006	6	4.50	0.6	144	250
009	9	6.75	0.9	324	250
012	12	9.00	1.2	576	250
018	18	13.50	1.8	1296	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	0.9 150	
012	12	9.00	1.2 267		540
018	18	13.50	1.8 600		540
024	24	18.00	18.00 2.4 1067		540
048	48	36.00	4.8	4267	540
SDT-LM	R2				
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



Contact Current (A)







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

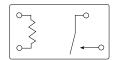
Other Data

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

<u>www.te.c</u>	om/customersupport/ronssupportcenter
Ambient temperature	-30°C to +70°C
Category of environmental protection	on
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.

Terminal assignment

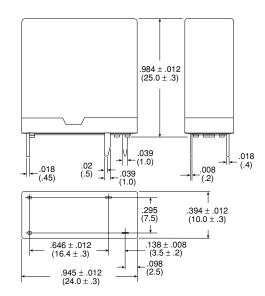
Bottom view on solder pins



tray/100 pcs., carton box/1000 pcs.

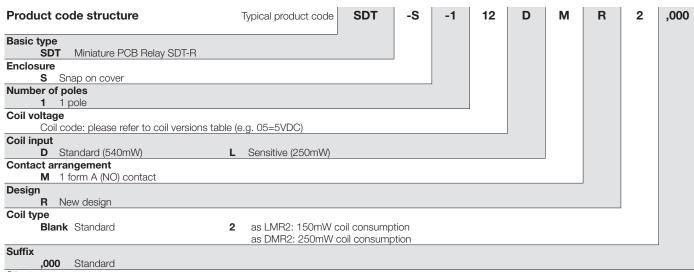
PCB layout 2 - .059 DIA (1.5) 2 - .05 DIA (1.3) 2 - .05 DIA (1.3) 2 - .05 DIA (1.4) (1.5) 2 - .05 DIA (1.5) 2 - .05 DIA (1.5) 38 ± .004 (1.6.4 ± .1) - .38 ± .004 (3.5 ± .1)

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

Mouser Electronics

Authorized Distributor

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TE Connectivity: