

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

Mechanical endurance, DC coil

Electrical endurance

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 100x103 ops.					
TV-5, 120VAC 25x10 ³ ops.					
SDT-DMR(2): 10A, 250VAC res, , 70°C 100x10 ³ ops.					
TV-8, 120VAC 25x10 ³ ops.					
Contact ratings	5 to 10A				

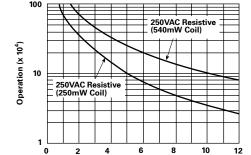
Coil Data		
Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	1	
Coil insulation system according LII	Class F	

10x10⁶ operations

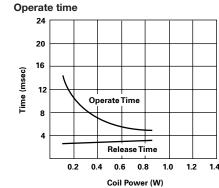
Contact Data (continued)

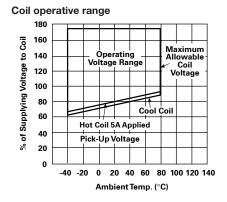
Coil versions, DC coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW		
SDT-LM	R & SDT-DM	R2					
003	3	2.25	0.3	36	250		
005	5	3.75	0.5	100	250		
006	6	4.50	0.6	144	250		
009	9	6.75	0.9	324	250		
012	12	9.00	1.2	576	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	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	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	

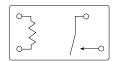
Other Data

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

<u>www.te</u>	e.com/customersupport/ronssupportcenter
Ambient temperature	-30°C to +70°C
Category of environmental protect	etion
IEC 61810	RTII - flux proof,
	RTIII - wash tight
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Weight	11g
Resistance to soldering heat TH	Τ
IEC 60068-2-20	RTII: 270°C/10s
	RTIII: 260°C/5s
Packaging/unit	tube/25 pcs., carton box/1000 pcs.

Terminal assignment

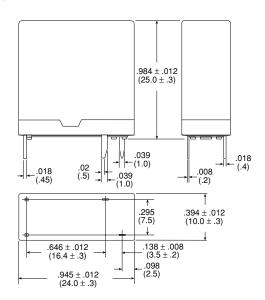
Bottom view on solder pins



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

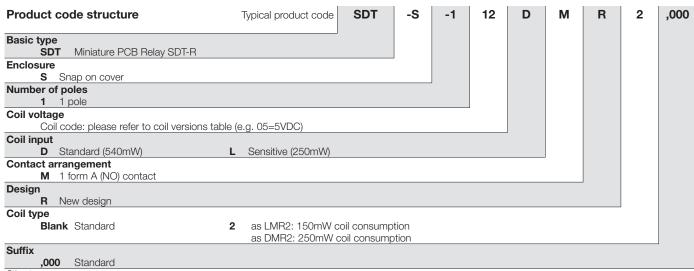
PCB layout 2 - .059 DIA (1.5) 2 - .05 DIA (1.3) 2 - .05 DIA (1.3) 2 - .05 DIA (1.4) (1.5) 2 - .05 DIA (1.5) 2 - .05 DIA (1.5) 38 ± .004 (1.6.4 ± .1) - .38 ± .004 (3.5 ± .1)

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

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>TE Connectivity</u>: 9-1419125-7