



MT2 Relay

- Telecom/signal relay (dry circuit, test access, ringing)
- Slim line 20x10mm (.795x.393")
- Switching current 2A
- 2 form C contacts (2 CO, 2 changeover contacts)
- **■** Bifurcated contacts

Typical applications

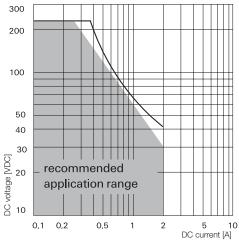
Communications equipment, linecard application – analog, ISDN, xDSL, PABX, voice over IP, office and business equipment, measurement and control equipment, consumer electronics, set top boxes, HiFi, medical equipment, automotive Equipment



Technical data of approved types on request

Contact Data	
Contact arrangement	2 form C (2 CO)
Max. switching voltage	220VDC, 250VAC
Rated current	2A
Limiting continuous current, 85°C	2A
Contact material	AgNi, gold-covered
Contact style	bifurcated contacts
Min. recommended contact load	10mA at 20mV
Minimum switching voltage	100μV
Initial contact resistance	< 70mΩ at 10mA, 20mV
Frequency of operation, without load max	<u> </u>
Operate / release time max.	5ms/3ms
Bounce time max.	5ms
Electrical endurance	
contact application 0 (≤30mV/≤10mA)	min. 5x10 ⁶ operations
cable load open end	min. 2.5x10 ⁶ operations
resistive load 150V/0.2A - 30W	min. 2x10 ⁵ operations
24V/1.25A - 30W	min. 2x10 ⁵ operations
Contact ratings, UL	
N.O./N.C. Contacts -	0.4 A at 125 V ac, resistive
	1.25 A at 24 V dc
	2 A at 30 V dc
These ratings are for same polarity between	
Mechanical endurance	typ. 10x10 ⁶ operations

Coil Data			
Magnetic system		neutral	
Coil voltage range DC loa	d breaking capacity	3 to 48VDC	
	a broaking capacity		
300			
200			







Max. coil temperature	115°C
Thermal resistance	< 85K/W

Coil versions, monostable						
Coil	Rated	Operate	Limiting	Release	Coil	Rated coil
code	voltage	voltage	Voltage	voltage	resistance	power
	VDC	VDC _{min.}	VDC _{max.}	VDC _{min.}	Ω±10%	mW
High se	nsitive ver	sion, 150n				
00	3	2.1	8.1	0.3	60	150
07	3.3	2.3	8.8	0.33	72	150
06	4.5	3.2	12.2	0.45	136	150
01	5	3.6	13.5	0.5	168	150
27	6	4.3	16.2	0.6	240	150
05	9	6.4	24.3	0.9	544	150
02	12	8.6	32.4	1.2	968	150
03	24	17.1	64.8	2.4	3872	150
04	48	34.1	129.6	4.8	15468	150
	e version,					
14	3	2	7	0.3	45	200
15	4.5	2.9	10.5	0.45	101	200
16	5	3.3	11.6	0.5	125	200
28	6	3.9	14	0.6	180	200
17	9	5.9	21	0.9	405	200
18	12	7.8	28	1.2	720	200
19	24	15.6	59.9	2.4	2880	200
20	48	31.2	112	4.8	11520	200
	e version,					
33	4.5	3.1	8.9	0.45	73	300
34	5	3.4	9.9	0.5	90	300
12	12	8.25	23.6	1.2	515	300
35	24	16.5	47.3	2.4	2060	300
36	48	32.5	54.6	4.8	8240	300
	d version,		0.0	0.45	50	100
21	4.5	2.9	8.9	0.45	50	400
22	5	3.3	9.9	0.5	63	400
29	6	3.9	11.8	0.6	90	400
23	9	5.9	17.7	0.9	203	400
24	12	7.8	23.6	1.2	360	400
25	24	15.6	47.3	2.4	1440	400
26	48	31.2	94.6	4.8	5760	400
	d version,		0.0	0.45	00	550
38	4.5	2.9	6.3	0.45	36	550
50	5	3.3	7	0.5	45	550
37	6	3.9	8.4	0.6	66	550
32	12	7.8	16.8	1.2	280	550
31 30	24 48	15.6	33.6	2.4	1050	550 550
		31.2	67.2 e-energization	4.8	4100	550 23°C

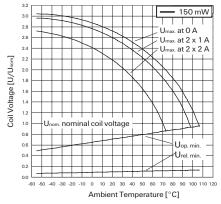
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

Coil Data (continued)

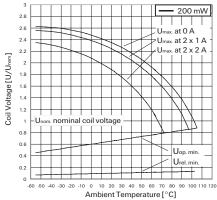


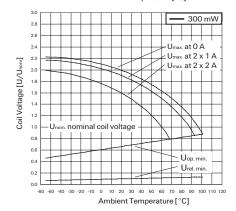
MT2 Relay (Continued)

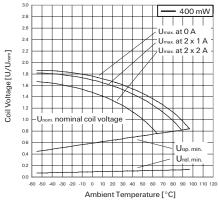
Coil Data (continued)



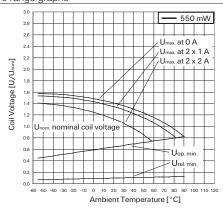
RELAY PRODUCTS







Coil operative range graphs



U_{nom} Nominal coil voltage

 $\begin{array}{ll} & \text{voltage) when coils are continously energized} \\ U_{\text{op. min.}} & \text{Lower limit of the operative range of} \\ & \text{the coil voltage (reliable operate voltage)} \end{array}$

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

Insulation Data	
Initial dielectric strength	
between open contacts	$750V_{rms}$
between contact and coil	1250V _{rms}
between adjacent contacts	750V _{rms}
Initial surge withstand voltage	
between open contacts	1050V
between contact and coil	1750V
between adjacent contacts	1050V
Initial insulation resistance at 500VDC	$> 10^{9}\Omega$
Capacitance	
between open contacts	max. 2pF
between contact and coil	max. 4pF
between adjacent contacts	max. 2 pF
Clearance/Creepage	0.2/0.76mm
Clearance/Creepage	0.2/0.76mm

RF Data		
Isolation at 100MHz/900MHz	-31.8dB/-14.2dB	
Insertion loss at 100MHz/900MHz	-0.02dB/-0.97dB	
Voltage standing wave ratio (VSWR)		
at 100MHz/900MHz	1.03/1.31	

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> </u>	:.com/castomersappert/renssappertechter
Ambient temperature	-55 to +85°C
Category of environmental protect	tion
IEC 61810	RT III - wash tight
Vibration resistance (functional)	10g, 10 to 500Hz
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	10g/30g
Shock resistance (destructive)	500g
Terminal type	PCB-THT
Weight	max. 5g
Resistance to soldering heat TH	Γ
IEC 60068-2-20	265 °C / 10 s
Ultrasonic cleaning	not recommended
Packaging unit	1000 pcs.



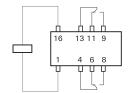
AXICOM



MT2 Relay (Continued)

Terminal assignment

TOP view on component side of PCB

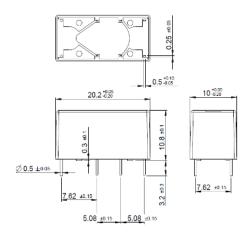


PCB layout

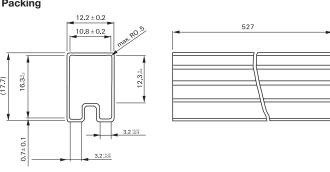
TOP view on component side of PCB 2.54 $.21\pm0.15$ Ø min. 0.8

 1.19 ± 0.15

Dimensions



Packing



Product code structure

Typical product code **C934**

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Туре

C934 MT2 Series Signal Relay

2 form C, 2 CO, AgNi +Au contacts

Coil

Coil code: please refer to coil versions table







MT2 Relay (Continued)

Signal Relays

Product code	Version	Coil	Coil power	Coil voltage	Part number
C93400	2 form C (2CO)	High	150mW	3VDC	1-1462001-2
C93407	AgNi+Au	sensitive		3.3VDC	1-1462001-3
C93406	contacts			4.5VDC	2-1462000-2
C93401				5VDC	1462000-1
C93427				6VDC	5-1462000-6
C93405				9VDC	2-1462000-0
C93402				12VDC	1462000-7
C93403				24VDC	1-1462000-3
C93404				48VDC	1-1462000-8
C93414		Sensitive	200mW	3VDC	1-1462001-1
C93415				4.5VDC	3-1462000-0
C93416				5VDC	3-1462000-1
C93428				6VDC	5-1462000-7
C93417				9VDC	3-1462000-6
C93418				12VDC	3-1462000-7
C93419				24VDC	4-1462000-1
C93420				48VDC	4-1462000-5
C93433		Sensitive	300mW	4.5VDC	6-1462000-6
C93434				5VDC	6-1462000-8
C93412				12VDC	2-1462000-6
C93435				24VDC	7-1462000-0
C93436				48VDC	7-1462000-2
C93421		Standard	400mW	4.5VDC	4-1462000-7
C93422				5VDC	4-1462000-8
C93423				9VDC	5-1462000-0
C93424				12VDC	5-1462000-1
C93425				24VDC	5-1462000-3
C93426				48VDC	5-1462000-5
C93438		Standard	550mW	4.5VDC	7-1462000-7
C93450				5VDC	8-1462000-5
C93437				6VDC	7-1462000-6
C93432				12VDC	6-1462000-2
C93431				24VDC	6-1462000-1
C93430				48VDC	5-1462000-9