



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
- Meets FCC Part 68 and ITU-T K20

Typical applications

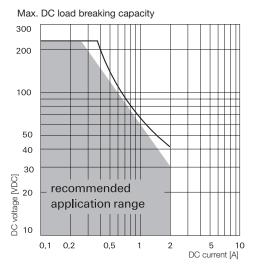
Communications equipment, linecard application - analog, ISDN, xDSL, PABX, voice over IP, office and business equipment, measurement and control equipment, consumer electronics, set top boxes, HiFi, medical equipment, automotive Equipment





Approvals	
UL 508 File No. E 111441	
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	$< 70 \text{m}\Omega$ at 10mA, 20mV
Frequency of operation, without load max	k. 50 operations/s
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	220VDC/0.24A - 60W
	125VDC/0.24A - 30W
	250VAC/0.25A - 62.5VA
	125VAC/0.5A - 62.5VA
	30VDC/2A - 60W
Mechanical endurance	typ. 100x10 ⁶ operations



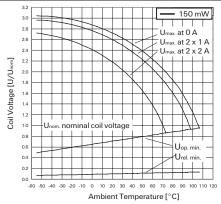
Coil D	ata					
Magnetic system neutral				eutral		
Coil voltage range 3 to 48VDC						
	il temperatu	re	115°C			
	resistance	0			.5 C	
	rsions, mor	nostable				
Coil	Rated	Operate	Limiting	Release	Coil	Rated coil
code	voltage	voltage	Voltage	voltage	resistance	power
0000	VDC	VDC _{min.}	VDC _{max}	VDC _{min.}	Ω±10%	mW
High se	nsitive ver			, D O	222 : 0 / 0	
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
Sensitiv	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
Sensitiv	e version,	300mW				
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
	rd version,					
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
	rd version,					
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	24	15.6	33.6	2.4	1050	550
30	48	31.2	67.2	4.8	4100	550

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

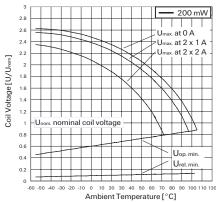


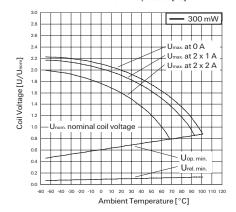
MT2 Relay (Continued)

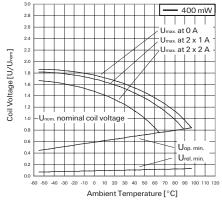
Coil Data (continued)



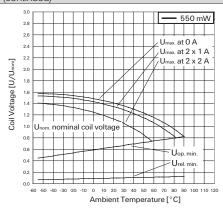
RELAY PRODUCTS







Coil Data (continued)



Coil operative range graphs

U_{nom} Nominal coil voltage

U_{max} Upper limit of the operative range of the coil voltage (limiting

voltage) when coils are continously 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 Data		
Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	$1050V_{rms}$	
between adjacent contacts	750V _{rms}	
Initial surge withstand voltage		
between open contacts	1500V	
between contact and coil	1500V	
between adjacent contacts	1500V	
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 nF	

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

Ambient temperature	-55 to +85°C
Category of environmental protection	
IEC 61810	RT III - immersion cleanable
Degree of protection, IEC 60529	IP 67
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 THT	
IEC 60068-2-20	265 °C / 10 s
Ultrasonic cleaning	not recommended
Packaging unit	1000 pcs.

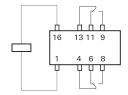


Signal Relays AXICOM

MT2 Relay (Continued)

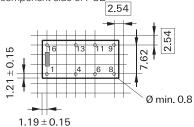
Terminal assignment

TOP view on component side of PCB



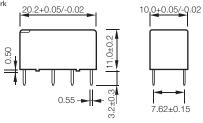
PCB layout

TOP view on component side of PCB,

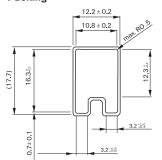


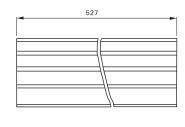
Dimensions

Orientation mark



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



Signal Relays AXICOM

MT2 Relay (Continued)

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