

SPECIFICATION

IRC

TELECOM RELAY

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ(at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	3A 120VAC/24VDC 1A 250VAC	
Minimum load	1mA 5VDC	
Max. switching voltage	240VAC/60VDC	
Max. switching current	5A	
Max. switching power	360VA/90W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS DATA

Insulation resistance		100MΩ Min (at 500VDC)
Dielectric strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. Volt.)		5ms.
Release time (at nomi. Volt)		5ms.
Shock resistance	Functional	10G
	Destructive	50G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40% to 85% RH
Ambient temperature		-30°C to 85°C
Termination		PCB
Unit weight		Approx. 3.5g
Construction		Wash tight, Flux proofed

Notes : 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	200mW / 360mW / 450mW
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COIL DATA

at 23°C

(200mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.25	0.3	66.7	45 x (1±10%)
5	3.75	0.5	40	125 x (1±10%)
6	4.50	0.60	33.3	180 x (1±10%)
9	6.75	0.9	22.2	105 x (1±10%)
12	9.00	1.2	16.7	720 x (1±10%)
24	18.0	2.4	8.3	2880 x (1±10%)

(360mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.25	0.3	120	25 x (1±10%)
5	3.75	0.5	71.4	70 x (1±10%)
6	4.50	0.6	60	100 x (1±10%)
9	6.75	0.9	40	225 x (1±10%)
12	9.00	1.2	30	400 x (1±10%)
24	18	2.4	15	1600 x (1±10%)
48	36	4.8	7.5	6400 x (1±10%)

(450mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.25	0.3	150	20 x (1±10%)
5	3.75	0.5	90	56 x (1±10%)
6	4.50	0.6	75	80 x (1±10%)
9	6.75	0.9	50	180 x (1±10%)
12	9.00	1.2	37.5	320 x (1±10%)
24	18	2.4	18.7	1280 x (1±10%)
48	36	4.8	9	5120 x (1±10%)

ORDERING INFORMATION

	IRC	-1A	-D12	S	Nil
Type					
Contact form	1A : 1 Form A 1C : 1 Form C				
Coil voltage	3, 5, 6, 9, 12, 24, 48 VDC				
Construction	S : Sealed type				
Coil power	D : 0.36W Nil : 0.2W N : 0.45W				

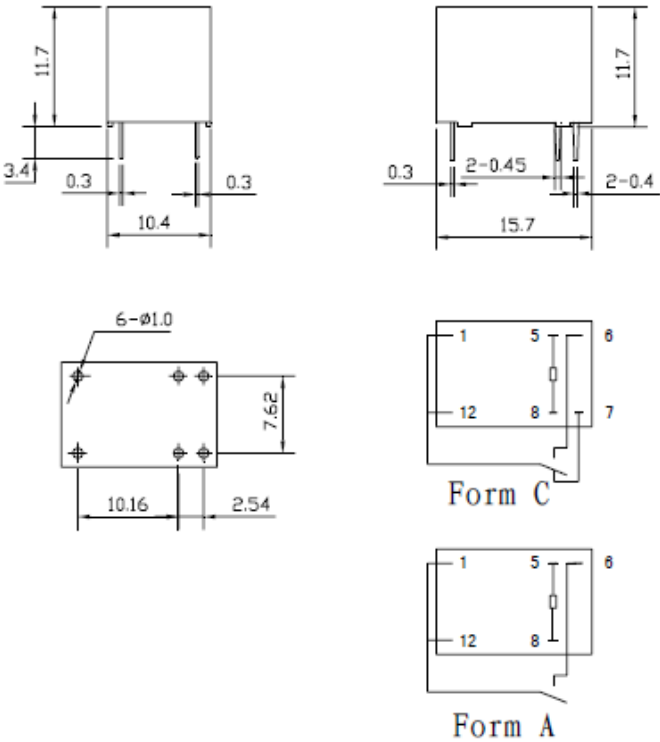
SAFETY APPROVAL RATINGS

UL&CUL	3A 120VAC/24VDC	3 to 48 VDC	0.36W / 0.20W / 0.45W
TUV	3A 120VAC/24VDC 1A 250VAC		0.36W / 0.20W

Notes : 1) Only some typical rating are listed above. If more details are required, please contact us.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm



CHARACTERISTIC CURVES

