

SPECIFICATION

IRD

TELECOM RELAY

CONTACT DATA

Contact arrangement	1C	
Contact resistance	100mΩ(at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	1A 120VAC/ 1A 24VDC (150mW/200mW)	2A 120VAC/ 2A 24VDC (360mW)
Max. switching voltage	120VAC/60VDC	
Max. switching current	1A	2A
Max. switching power	120VA/30W	240VA/48W
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS DATA

Insulation resistance	1000MΩ Min (at 500VDC)	
Dielectric strength	Between coil & contacts	1000VAC 1min
	Between open contacts	400VAC 1min
Operate time (at nomi. Volt.)	4ms.	
Release time (at nomi. Volt)	3ms.	
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	35% to 85% RH	
Ambient temperature	-30°C to 85°C	
Termination	PCB	
Unit weight	Approx. 2.2g	
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 / 150mW
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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	4.5	0.6	33.3	180 x (1±10%)
9	6.75	0.9	22.2	405 x (1±10%)
12	9	1.2	16.7	720 x (1±10%)
24	18	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	72	70 x (1±10%)
6	4.5	0.6	60	100 x (1±10%)
9	6.75	0.9	40	220 x (1±10%)
12	9	1.2	30	400 x (1±10%)
24	18	2.4	15	1600 x (1±10%)

(150mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated current Ma	Coil Resistance Ω
3	2.25	0.3	50	60 x (1±10%)
5	3.75	0.5	29.9	167 x (1±10%)
6	4.5	0.6	25	240 x (1±10%)
9	6.75	0.9	16.7	540 x (1±10%)
12	9	1.2	12.5	960 x (1±10%)
24	18	2.4	6.3	3840 x (1±10%)

ORDERING INFORMATION

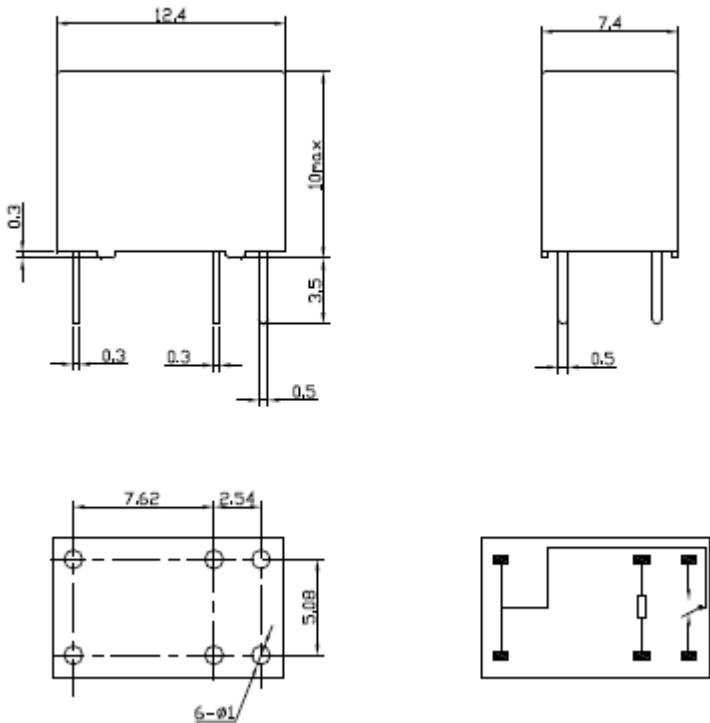
Type	IRD	-1C	-D12	S	Nil
Contact form	1C : 1 Form C				
Coil voltage	3, 5, 6, 9, 12, 24 VDC				
Construction	S : Sealed type				
Coil power	D : 0.36W Nil : 0.2W M : 0.15W				

SAFETY APPROVAL RATINGS

UL&CUL	1A/2A 120VAC 1A/2A 24VDC	3 to 24VDC	
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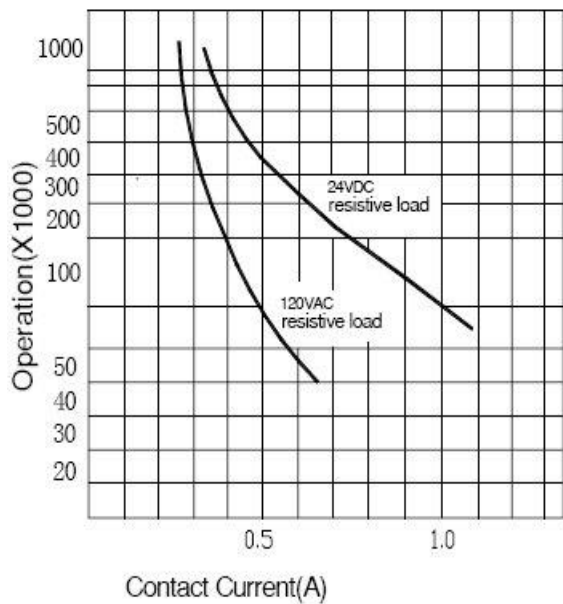
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

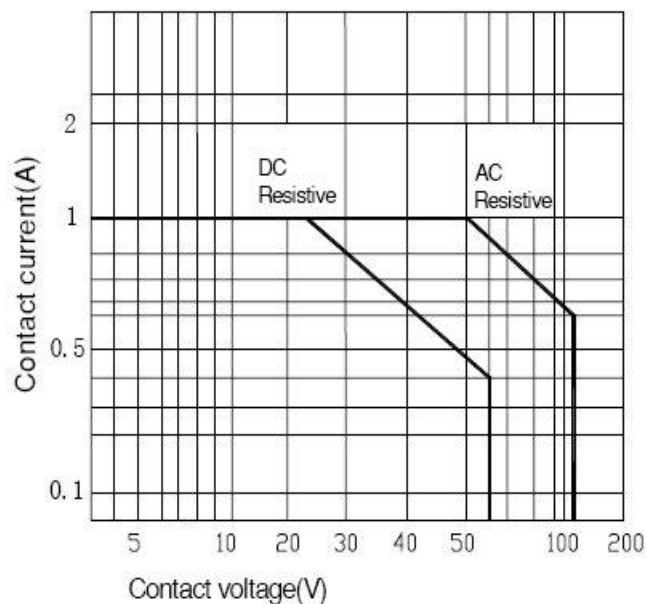


CHARACTERISTIC CURVES

service life



current



temperature

