

SPECIFICATION

IRJ

SUBMINIATURE POWER RELAY

CONTACT DATA (IRJ)

Contact arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	Silver alloy	
Contact rating (Res. load)	NI(0.2W) 3A 250VAC 30VDC	-SL(0.45W) 10A 125VAC 5A 250VAC/30VDC 3A 250VAC /30VDC
Minimum load	100mA 5VDC	
Max. switching voltage	250VAC/30VDC	
Max. switching current	5A	3A
Max. switching power	1200VA/150W	720VA/90W
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CONTACT DATA

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	1A : 4000VAC 1min 1C : 2500VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		4ms max.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm
Humidity		40% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 6g
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 / 450mW
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(200mW, Only for 1 Form A)

(450mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.25	0.15	66.7	45 x (1±10%)	3	2.25	0.15	150	20 x (1±10%)
5	3.75	0.25	40	125 x (1±10%)	5	3.75	0.25	89.28	55 x (1±10%)
6	4.50	0.30	33.33	180 x (1±10%)	6	4.50	0.30	75	80 x (1±10%)
9	6.75	0.45	22.22	400 x (1±10%)	9	6.75	0.45	50	180 x (1±10%)
12	9.00	0.60	16.67	720 x (1±10%)	12	9.00	0.60	37.5	320 x (1±10%)
18	13.5	0.90	11.11	1620 x (1±10%)	18	13.5	0.90	25	720 x (1±10%)
24	18.0	1.20	8.33	2880 x (1±10%)	24	18.0	1.20	18.75	1280 x (1±10%)

ORDERING INFORMATION

IRJ		-1A	D12	S	Nil
Type					
Contact form	1A : 1 Form A 1C : 1 Form C				
Coil voltage	3, 5, 6, 9, 12, 18, 24 VDC				
Construction	S : Sealed type				
Coil power	L : 0.45W Nil : 0.2W				

SAFETY APPROVAL RATINGS

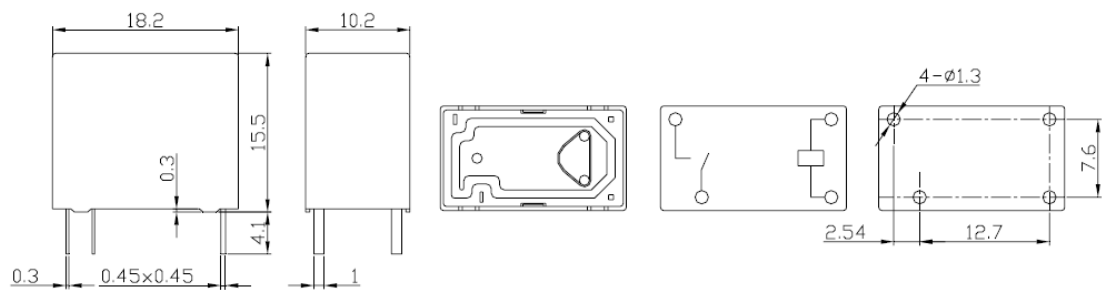
IRJ	UL&CUL	10A 120VAC 5A 240VAC 3A 240VAC 30VDC	Life-Cycle:10000	1A: MAX 85° 1C: MAX 40°
	TUV	10A 125VAC 5A 250VAC 30VDC 3A 250VAC 30VDC	Life-Cycle:10000	-40°C to +85°C

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

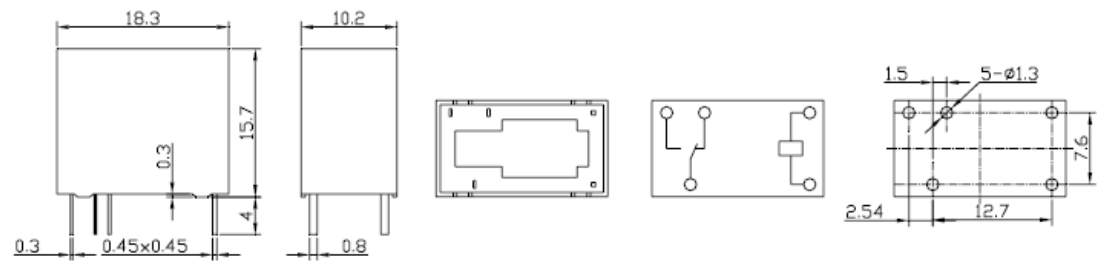
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

IRJ-1A



IRJ-1C



CHARACTERISTIC CURVES

IRJ

