

SPECIFICATION

IRJ-E

SUBMINIATURE POWER RELAY

CONTACT DATA (IRJ-E)

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	Silver alloy
Contact rating (Res. load)	10A 250VAC [UL] 8A 240VAC
Minimum load	100mA 5VDC
Max. switching voltage	277VAC/30VDC
Max. switching current	10A
Max. switching power	2500VA/300W
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	4000VAC 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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COIL DATA(IRJ-E)

at 23°C

(450mW)

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

ORDERING INFORMATION

	IRJ	-1A	-E	D12	S	L
Type						
Contact form	1A : 1 Form A 1C : 1 Form C					
Contact Rating	E : 10A 250VAC Nil : 3A 240VAC 30VDC					
Coil voltage	3, 5, 6, 9, 12, 18, 24 VDC					
Construction	S : Sealed type					
Coil power (Only IRJ Type)	L : 0.45W Nil : 0.2W					

SAFETY APPROVAL RATINGS

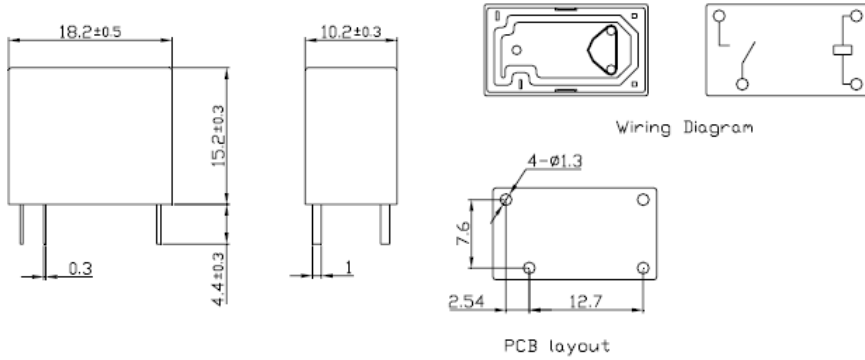
IRJ-E	UL&CUL	8A 240VAC	Life-Cycle:10000	MAX 85°
	TUV	10A 250VAC	Life-Cycle:100000	-40°C to +85°C

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-E



CHARACTERISTIC CURVES

IRJ-E

