

SPECIFICATION

IRW

MINIATURE INTERMEDIATE POWER RELAY

CONTACT DATA

Contact arrangement	1C	2C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	16A 250VAC / 30VDC	10A 250VAC / 30VDC
Max. switching voltage	250VAC/30VDC	
Max. switching current	20A	15A
Max. switching power	4000VA / 480W	2500VA / 300W
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS

Insulation resistance		100MΩ Min(at 500VDC)
Dielectric strength	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		25ms max.
Release time (at nomi. Volt)		25ms max.
Shock resistance	Functional	20G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40 ~ 85%
Ambient temperature		-40°C to 70°C
Termination		PCB
Unit weight		Approx. 35g
Max. Switching frequency	Mechanical	18,000 ops/hr
	Electrical	1,800 ops/hr
Construction		Wash tight, Flux proofed

Notes : 1) The data shown above are initial values.

COIL

Coil power	900mW / 1.2VA
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COIL DATA

23°C

(DC : 900mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
5	3.75	0.5	178.5	28 x (1±10%)
6	4.5	0.6	150	40 x (1±10%)
12	9	1.2	75	160 x (1±10%)
24	18	2.4	37.5	640 x (1±10%)
48	36	4.8	18.75	2560 x (1±10%)
110/120	82.5	11	10	11000 x (1±10%)

(AC : 1.2VA)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
6	4.8	1.2	11.5 x (1±10%)
12	9.6	2.4	46 x (1±10%)
24	19.2	4.8	180 x (1±10%)
48	38.4	9.6	735 x (1±10%)
110/120	96	22	4550 x (1±10%)
220/240	176	44	14400 x (1±10%)

ORDERING INFORMATION

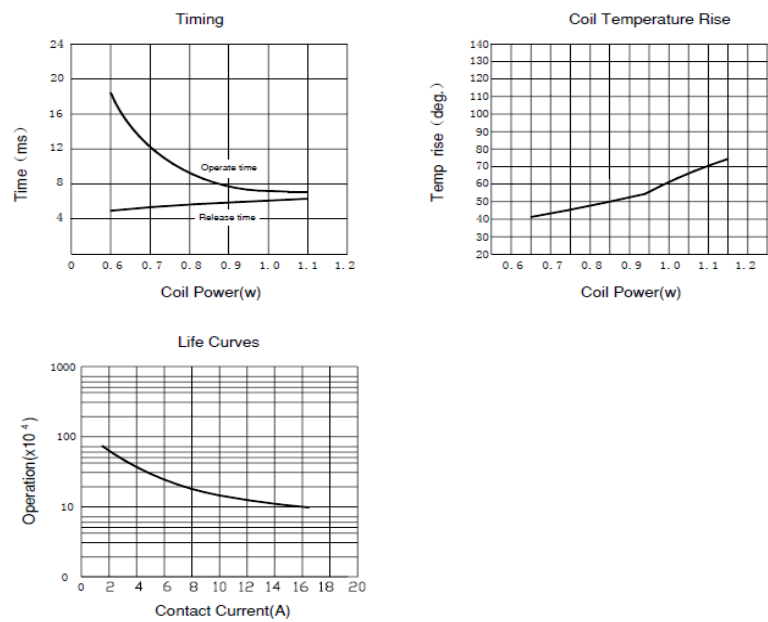
	IRW	-1C	D12	S	F
Type					
Contact Form	1C : 1 Form C , 2C : 2 Form C				
Coil Voltage	5, 6, 12, 24 ,48 110, 120VDC 6, 12, 24, 48, 110, 220/240VAC				
Construction	S : Socket Type(B-Type) P : PCB Type				
Cover Type	F : Flange Type Nil : Standard Type				

SAFETY APPROVAL RATINGS

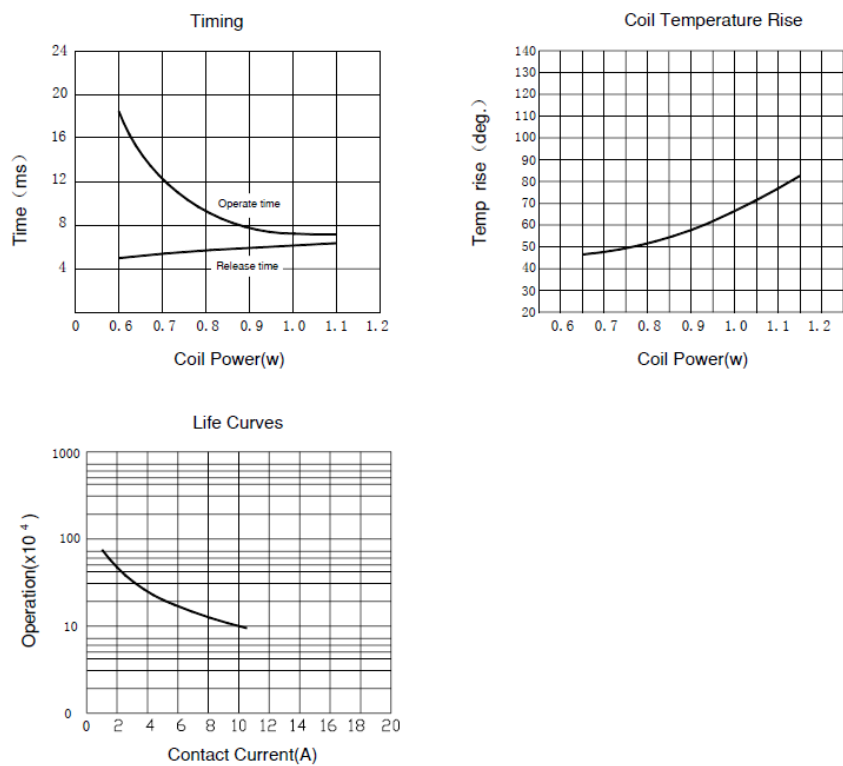
		1C	2C
UL	5 to 110VDC	16A 250VAC 16A 30VDC	10A 250VAC 10A 30VDC 15A 125VAC
	6 to 240VAC		
TUV	5 to 110VDC	16A 240VAC 16A 30VDC	10A 240VAC 10A 30VDC
	6 to 240VAC		

CHARACTERISTIC CURVES

1C



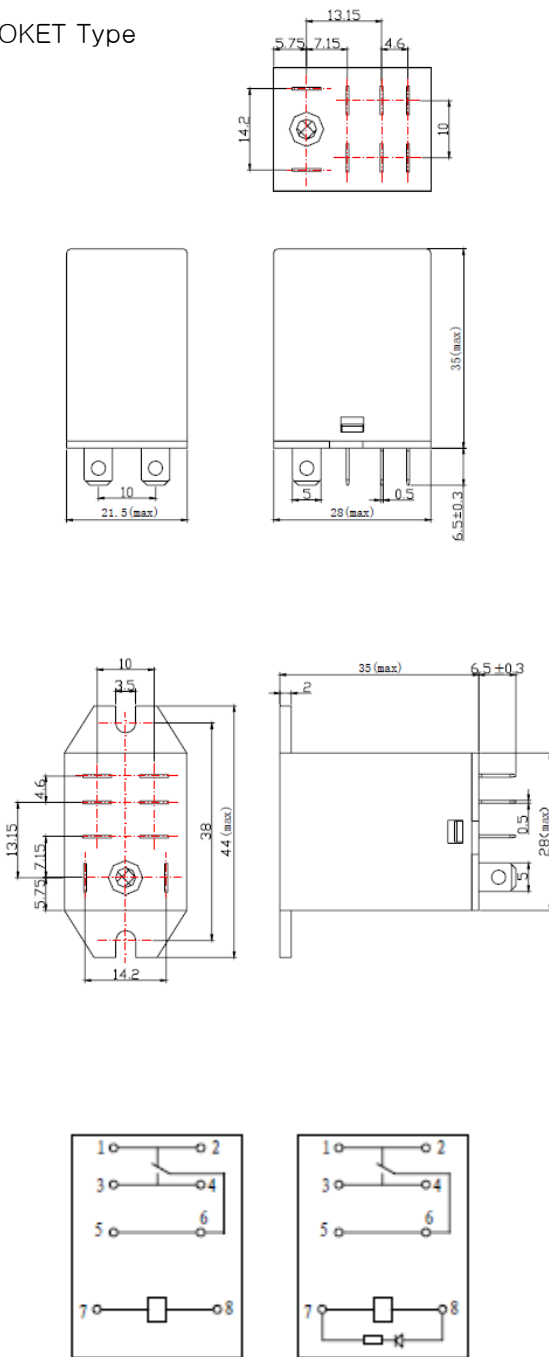
2C



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

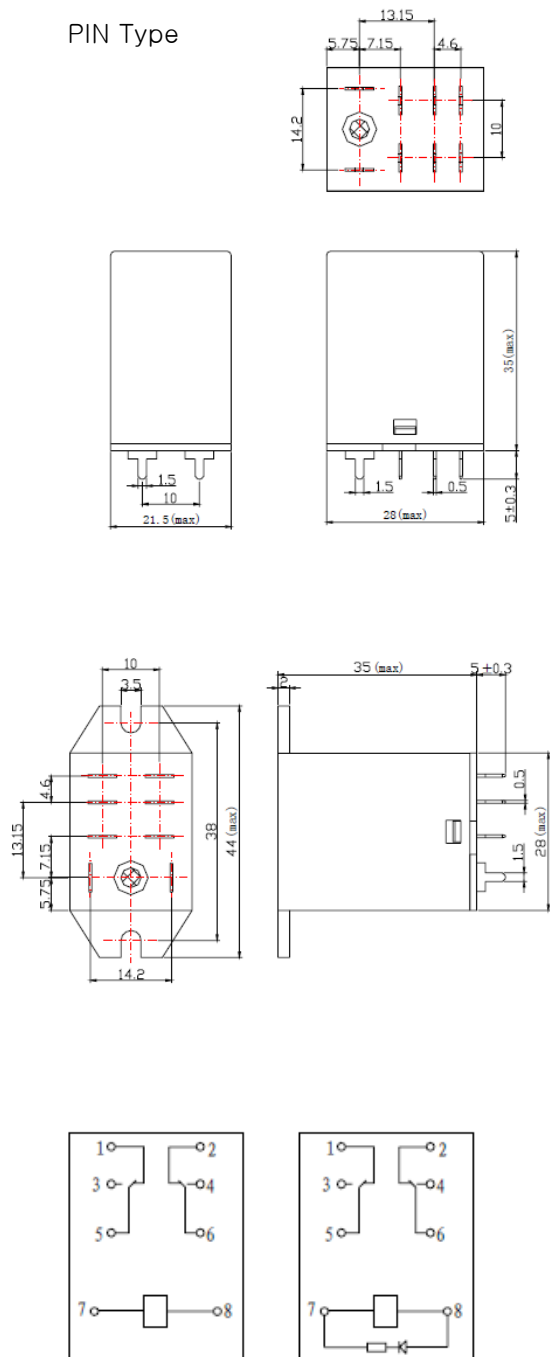
Unit:mm

SOKET Type



1C

PIN Type



2C