

SPECIFICATION

IRK-E

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	16A 240VAC / 30VDC	
Max. switching voltage	250VAC/30VDC	
Max. switching current	20A	
Max. switching power	4000VA/ 480W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		20ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	10G
	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. 14g
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	540mW / 720mW
------------	---------------

COIL DATA

at 23°C

(0.54W)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.4	0.15	180	17 x (1±10%)
5	4.0	0.25	108	46 x (1±10%)
6	4.8	0.30	90	67 x (1±10%)
9	7.2	0.45	60	150 x (1±10%)
12	9.6	0.60	45	270 x (1±10%)
24	19.2	1.20	22.5	1050 x (1±10%)
48	38.4	2.40	11.3	4250 x (1±10%)

(0.72W)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.4	0.15	240	13 x (1±10%)
5	4.0	0.25	144	35 x (1±10%)
6	4.8	0.30	120	50 x (1±10%)
9	7.2	0.45	80	110 x (1±10%)
12	9.6	0.60	60	200 x (1±10%)
24	19.2	1.20	30	800 x (1±10%)
48	38.4	2.40	15	3200 x (1±10%)

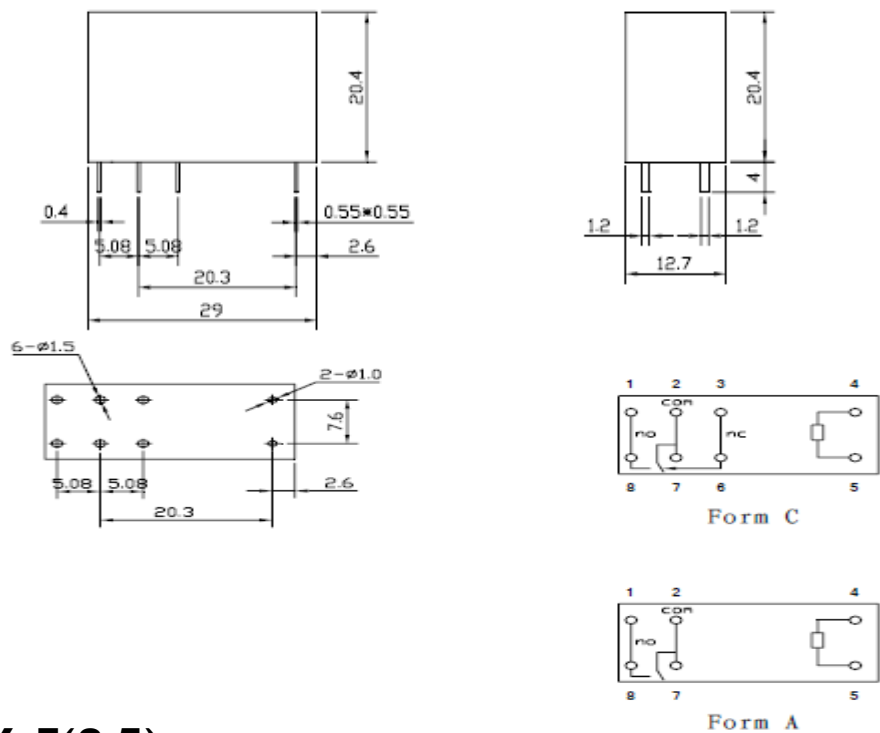
ORDERING INFORMATION

	IRK	-1C	E	D12	S	Nil	Nil	(3.5)
Type								
Contact Form	1A : 1 Form A , 1C : 1 Form C							
Contact Rating	E : 16A							
Coil Voltage	3, 5, 6, 9, 12, 24, 48 VDC							
Construction	S : Sealed Type							
Coil Power	Nil : 0.54W D : 0.72W M : 0.24W							
Cover Type	D : Transparent cover Nil : :standard							
Pin Pitch	Nil : 5mm (3.5) : 3.5mm							

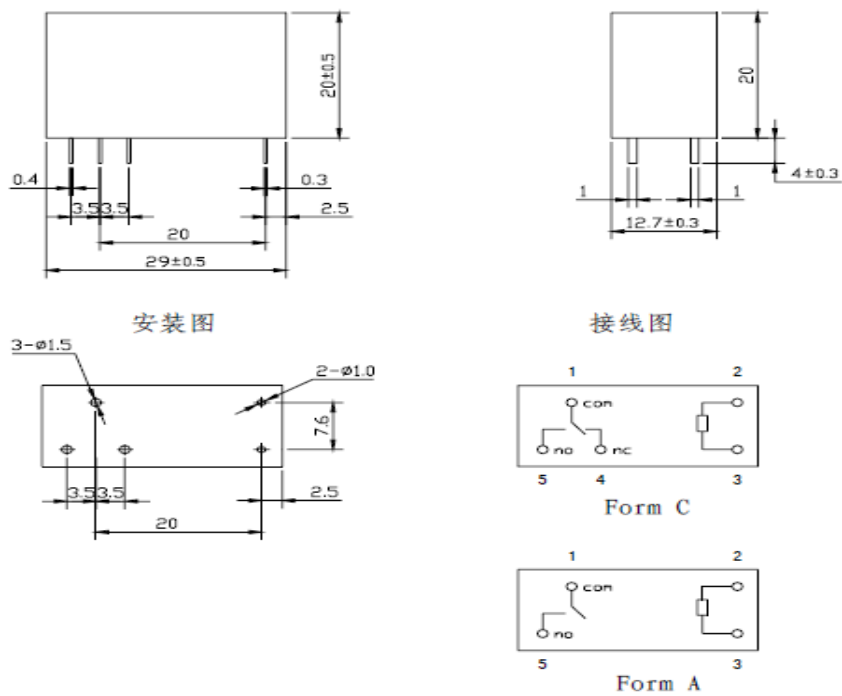
SAFETY APPROVAL RATINGS

UL&CUL	16A 240VAC 16A 30VDC	3 to 48VDC	
TUV	NO : 16A 240VAC 16A 30VDC NC : 12A 240VAC 12A 30VDC		

IRK-E



IRK-E(3.5)



CHARACTERISTIC CURVES

