952 Series Relay

FEATURES

- UL safety approval.
- 2 Pole to 4 Pole are prepared with switching current of 7A (2 pole, 3 pole) and 5A (4 pole).
- PCB terminal and Socket terminal are selectable, and for direct panel mount, flange case type is available.
- Nominal power 900mW & AC 1.2VA.
- Operating power 510mW.
- Either with or without lamp is optional for AC & DC coil.
- Low coil power consumption with high response time.

UL FILE NO: E162117

ORDERING INFORMATION

952 - 4C - 12 D P M L - F 1 2 3 4 5 6 7 8	
1.Model Number 2.Contact Arrangement 2C = 2 Form C (DPDT) 3C = 3 Form C (3PDT) 4C = 4 Form C (4PDT) 3.Coil Voltage DC: 6~100V AC: 12~270V 4.Coil Type D: DC A: AC 5.Terminal Type Nil = Socket Terminal P = P.C.B. Terminal	6.Cover Type Nil = General Type M = Flange Top Type S = Special Type E = Special Flange Top Type 7.Optional Nil = General Type L = With Lamp and Diode (DC Coil Type Only) N = With Lamp B = With Push Button T = With Lamp and Push Button K = With Lamp and Diode and Push Button (DC Coil Type Only) 8.Type of Insulation Nil = Class B F = Class F

COIL RATINGS (at 20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance (Ω ±10%)	Pick-Up Voltage (V) ≤	Drop-Out Voltage (V) ≥	Nominal Current (mA)
DC Standard Coils	6	40	4.5	0.6	150
	12	160	9	1.2	75
	24	650	18	2.4	37
	48	2600	36	4.8	19
	100	11000	75	10	9
AC	12	46	9	3.6	
	24	180	18	7.2	
	110	3750	82.5	33	
	120	4430	90	36	
	220	12950	165	66	
	240	18790	180	72	
	270	24150	202.5	81	

* Max Continuous Voltage at 20℃: 130% of Coil Nominal Voltage.

CONTACT RATINGS

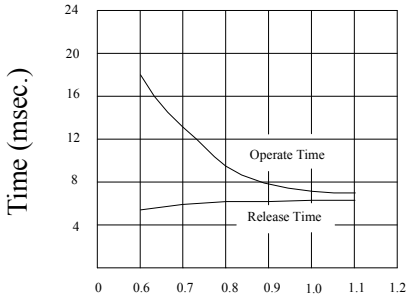
Contact Arrangement	2 Form C (DPDT)	3 Form C (3PDT)	4 Form C (4PDT)
Max. Switching Power	1750VA 210W	1750VA 210W	1250VA 150W
Max. Switching Voltage	250VAC 30VDC	250VAC 30VDC	250VAC 30VDC
Max. Switching Current	7A	7A	5A
Contact Resistance	≤100mΩ	≤100mΩ	≤100mΩ
Rating Load	7A/250VAC 7A/30VDC	7A/250VAC 7A/30VDC	5A/250VAC 5A/30VDC
Contact Material	Ag-CdO	Ag-CdO	Ag-CdO

CHARACTERISTICS

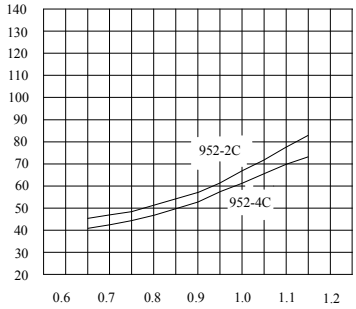
Electrical Life	1×10^5
Mechanical Life	1×10^7
Initial Insulation Resistance	Min. 100MΩ 500VDC
Contact Resistance (Initial)	≤100mΩ
Operate Time	≤25ms
Release Time	≤25ms
Initial Dielectric Strength	50/60Hz 500VAC 1 min. (between open contacts) 50/60Hz 1500VAC 1 min. (between contacts and coil) 50/60Hz 1500VAC 1 min. (between contact sets)
Vibration Resistance	Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm Destructive: 10 to 55Hz at Double Amplitude of 1.5mm
Shock Resistance	Malfunction: 10G (11ms) / Destructive: 100G (6ms)
Ambient Temperature	－25℃～＋55℃
Relative Humidity	85% at 40℃
Unit Weight	Approx. 35g

952 Referential Data

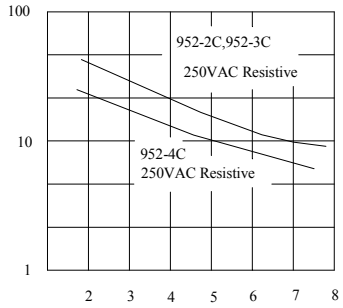
Timing



Coil Temperature Rise

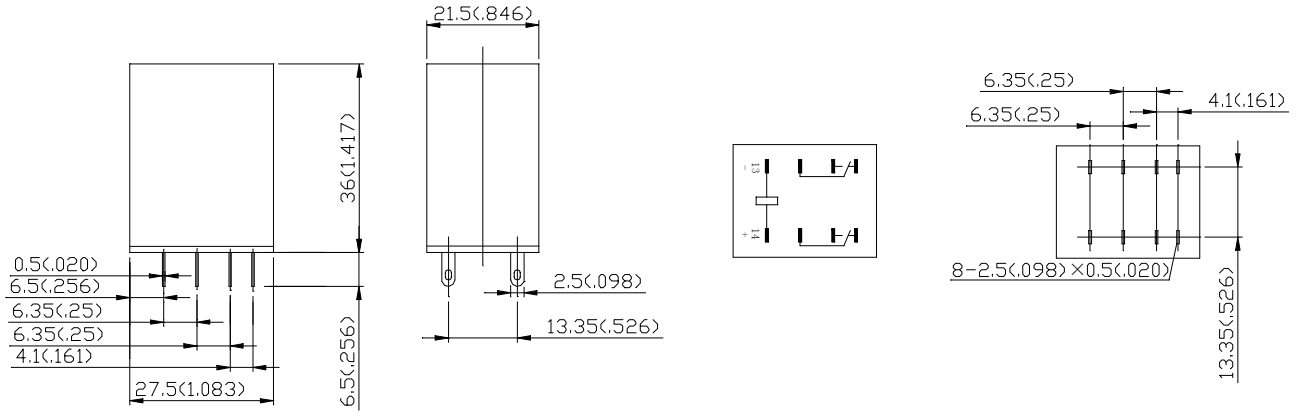


Life Curves

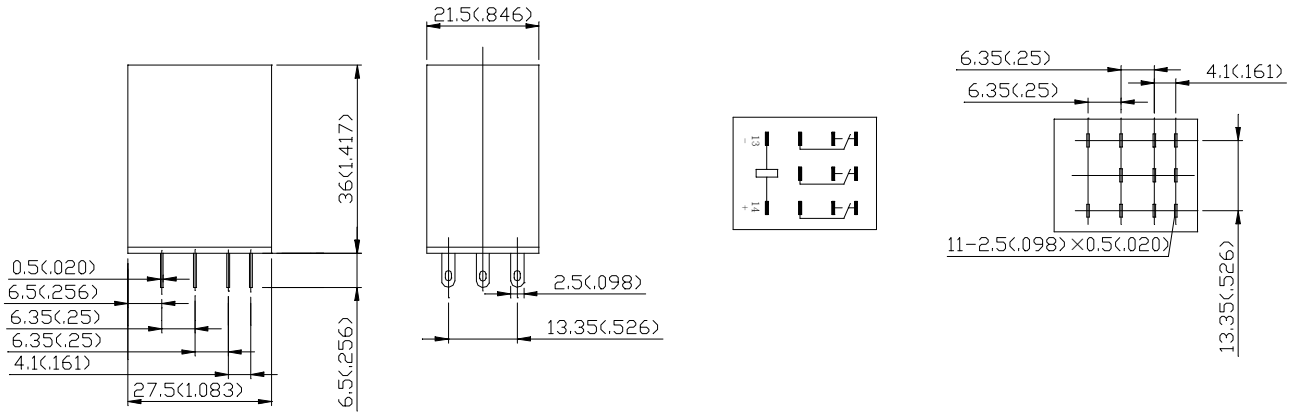


OUTLINE DIMENSIONS (GENERAL TYPE)

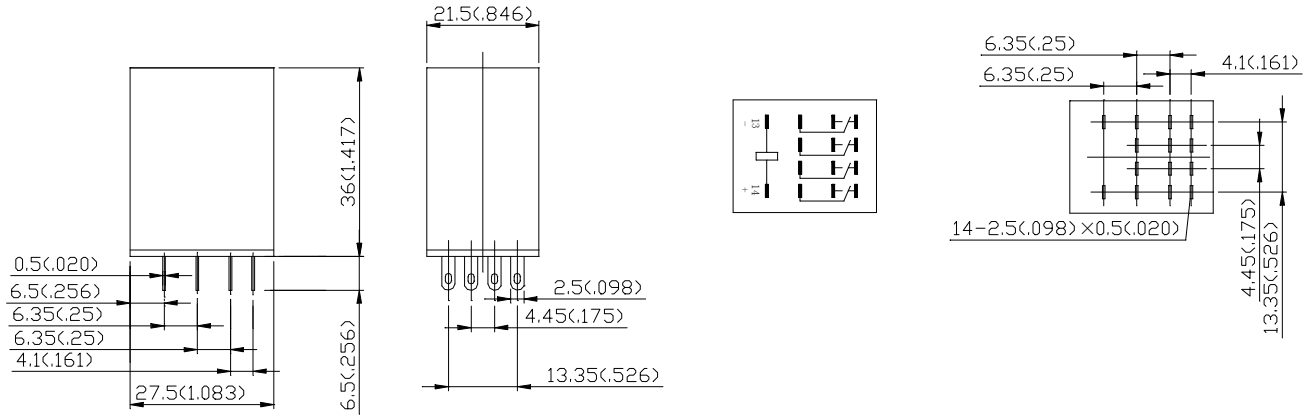
Dimensions | Internal Connections (Bottom View) | Drilling Plan (Bottom View)



2 Form C



3 Form C



4 Form C

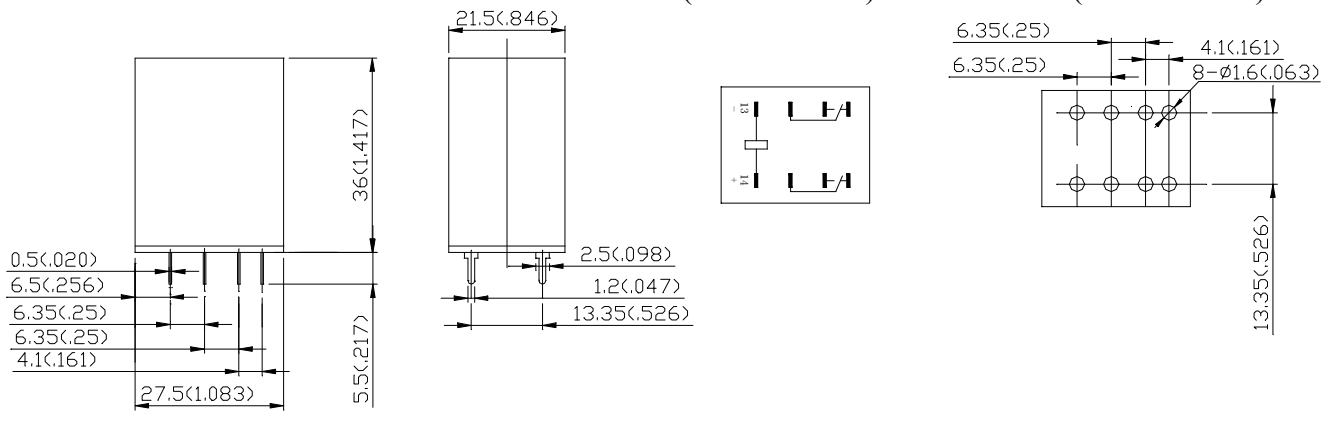
REMARK: 1.Tolerance of outline dimensions: ±0.2(.008).

2.The polarity of coil only applied for DL and DN type.

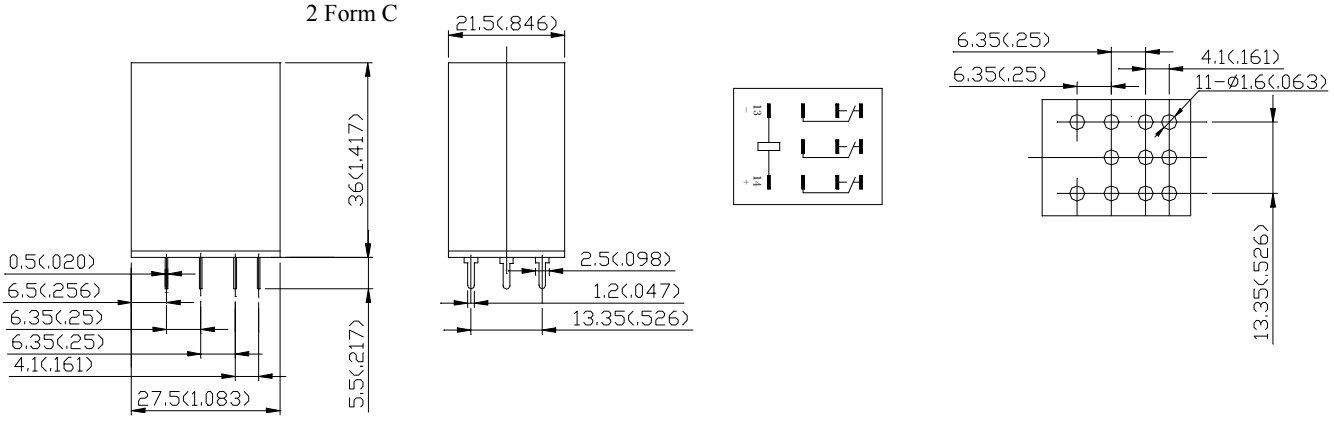
UNIT: mm (inch)

OUTLINE DIMENSIONS (P.C.B TYPE)

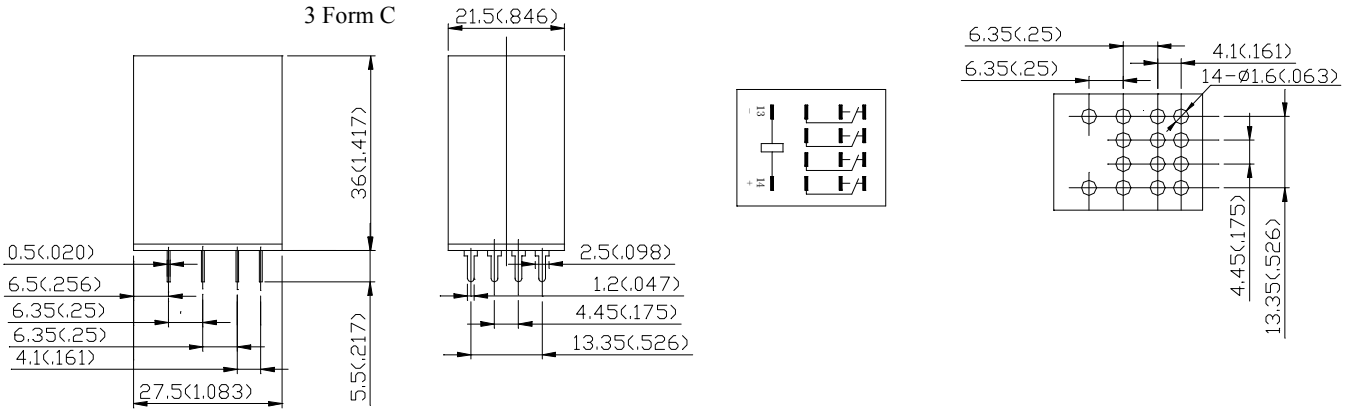
Dimensions | Internal Connections (Bottom View) | Drilling Plan (Bottom View)



2 Form C



3 Form C



4 Form C

REMARK: 1.Tolerance of outline dimensions: ±0.2(.008).

2.The polarity of coil only applied for DPL and DPN type.

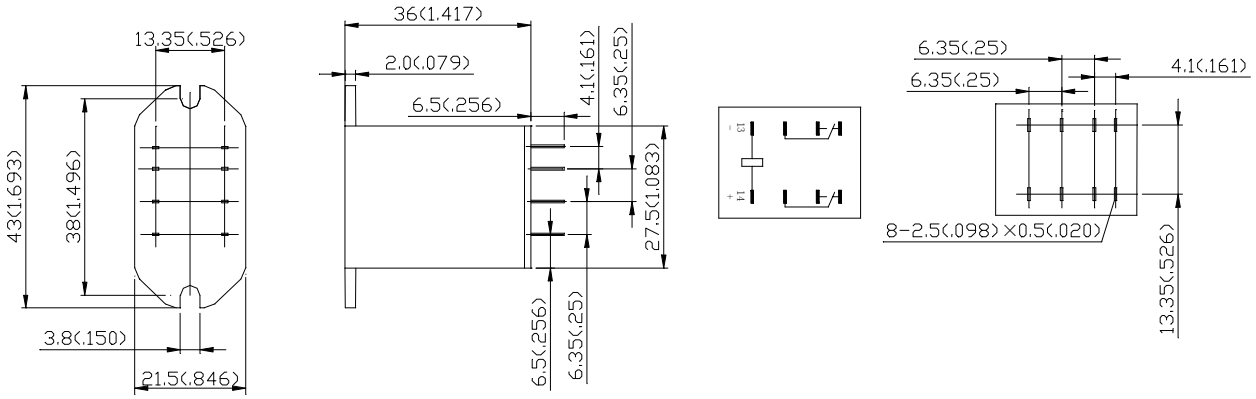
UNIT: mm (inch)

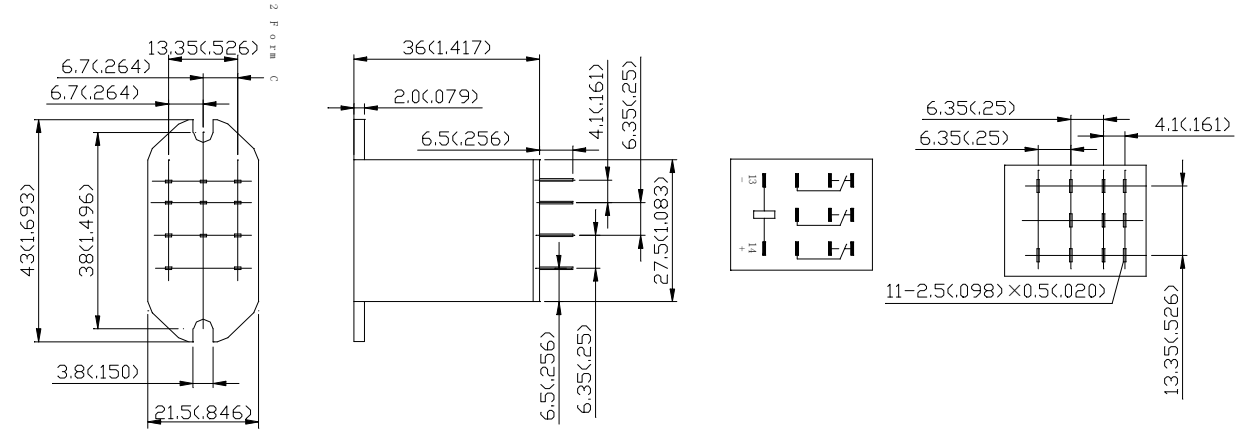
OUTLINE DIMENSIONS (OUTLINE CONNECT TYPE)

Dimensions

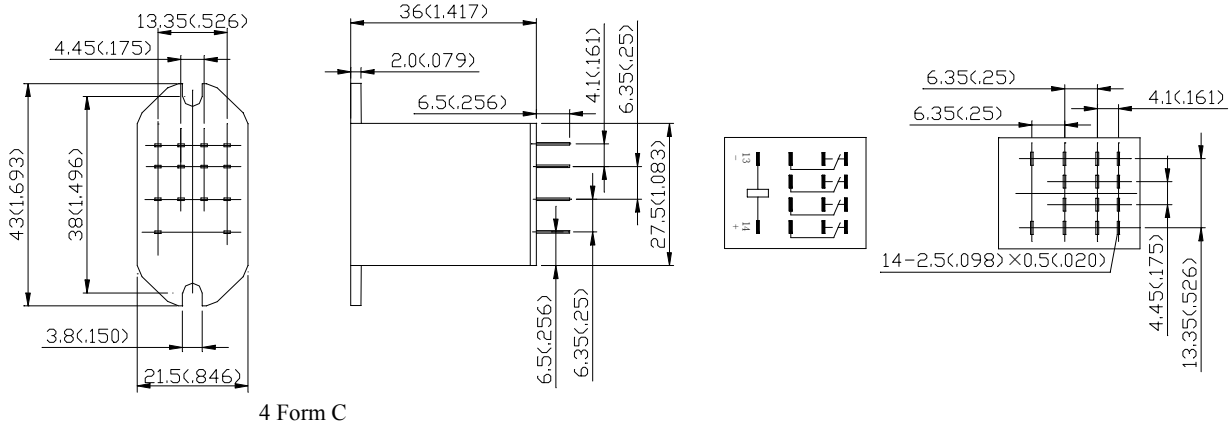
Internal Connections (Bottom View)

Drilling Plan (Bottom View)





3 Form C



4 Form C

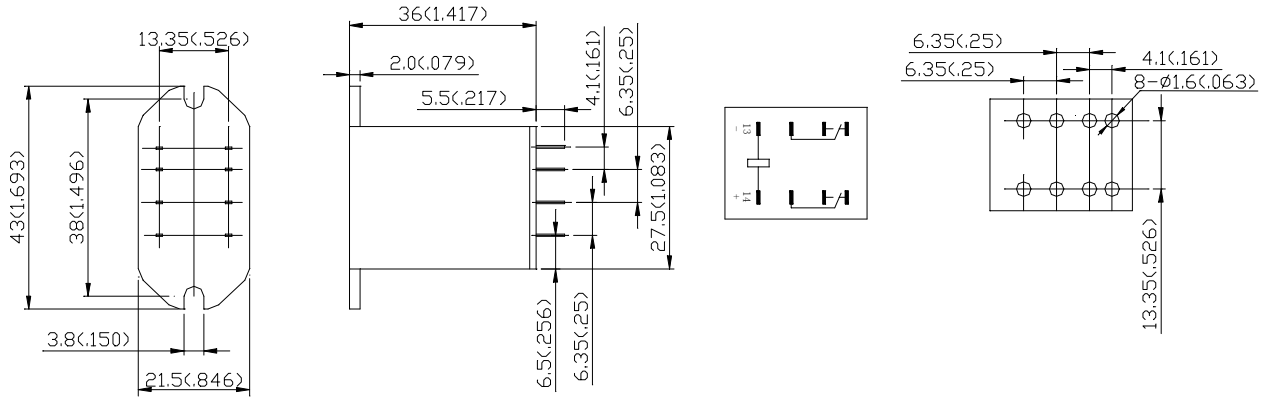
REMARK: 1.Tolerance of outline dimensions: ±0.2(.008).

2.The polarity of coil only applied for DL and DN type.

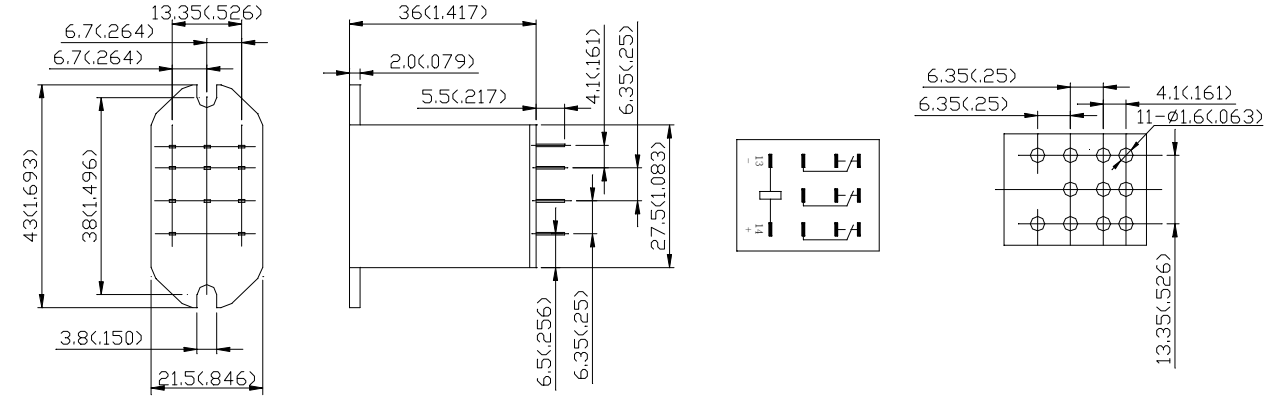
UNIT: mm (inch)

OUTLINE DIMENSIONS (OUTLINE CONNECT P.C.B TYPE)

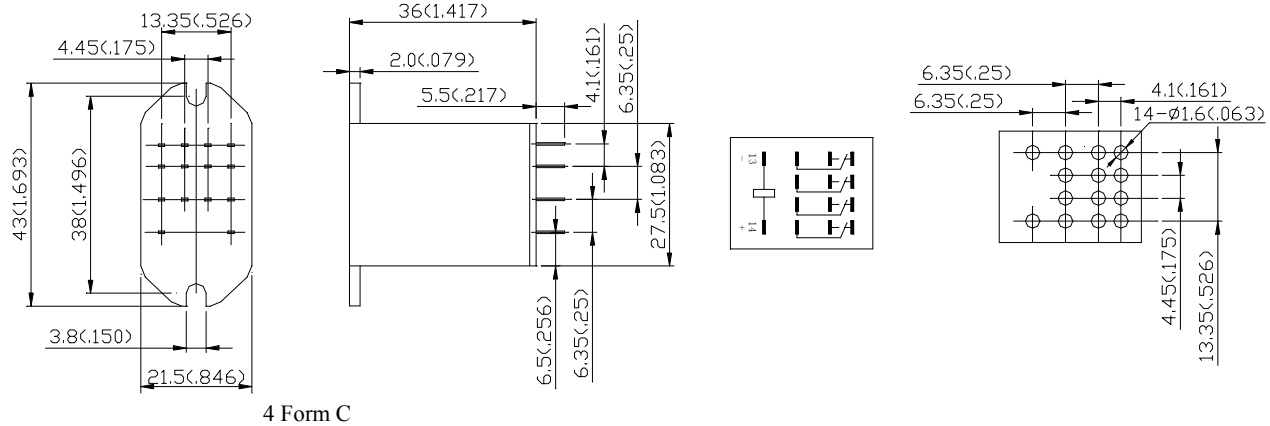
Dimensions | Internal Connections (Bottom View) | Drilling Plan (Bottom View)



2 Form C



3 Form C



4 Form C

REMARK: 1.Tolerance of outline dimensions: ±0.2(.008).

2.The polarity of coil is only applied for DPL and DPN type.

UNIT: mm (inch)