



DATA SHEET

Subminiatur PCB Power Relay 7A/10A/15A

Serie: P12018

**Subminiatur PCB Power
Relay 7A/10A/15A**

Serie No.: **P12018**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	12.05.2025
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 8	

EDCON-COMPONENTS

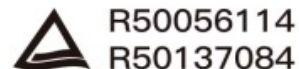
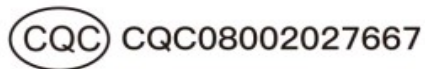


Technical Informations

Technical Dimensions (mm)

Contact arrangement	A, B, C
Contact resistance	≤100mΩ (1A 6VDC)
Contact material	银合金/Silver alloy: AgSnO ₂ In ₂ O ₃ , AgSnO ₂ , AgNi
Contact rating(Res. load)	7A/10A/15A 250VAC/28VDC, 10A 125VAC
Max switching voltage	277VAC/30VDC
Max switching current	15A
Max switching power	2770VA/300W
Electrical endurance (Frequency:360 ops/h)	1x10 ⁵ ops / 1x10 ⁴ ops
Mechanical endurance (Frequency:18000 ops/h)	1x10 ⁷ ops

SAFETY APPROVAL RATINGS



7A 250VAC
10A 250VAC

7A 250VAC
10A 250VAC
15A 250VAC NO

3A 125VAC 感性/Inductive
10A 125VAC
15A 125VAC NO

Tolerances unless otherwise specified (mm)

X	X.X	X.XX	X.XXX	Angle
±	±	±	±	±3°

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CHARACTERISTICS PARAMETERS

Insulation level		B/F
Insulation resistance		100MΩ(500VDC)
Dielectric strength (Leakage current 1mA)	线圈与触点间 Between coil and contacts	1500VAC 1min
	断开触点间 Between open contacts	1000VAC 1min
Operate time(at nominal voltage)		≤10ms
Release time (without diode) (at nominal voltage)		≤5ms
Humidity		5% ~ 85% RH
Ambient temperature		-40°C ~ +85°C/+105°C
Shock resistance	稳定性/Functional	98m/s ²
	强度/Destructive	980m/s ²
Vibration resistance (Double amplitude)		10Hz~55Hz 1.5mm
Weight		约/Approx 9g
Construction		密封/Sealed 防焊剂/Flux proofed

COIL PARAMETERS

Power consumption(W)	0.36W(L)								0.45W(D)							
Nominal voltage(VDC)	5	6	9	12	18	24	36	48	5	6	9	12	18	24	36	48
Coil resistance(Ω±10%)	69.4	100	225	400	900	1600	3600	6400	55	80	180	320	720	1280	2880	5120
Pick-up voltage(Max)	75% 额定电压(Nominal voltage)															
Drop-out voltage(Min)	10% 额定电压(Nominal voltage)															
Max allowable overdrive voltage(VDC)	130% 额定电压(Nominal voltage)															

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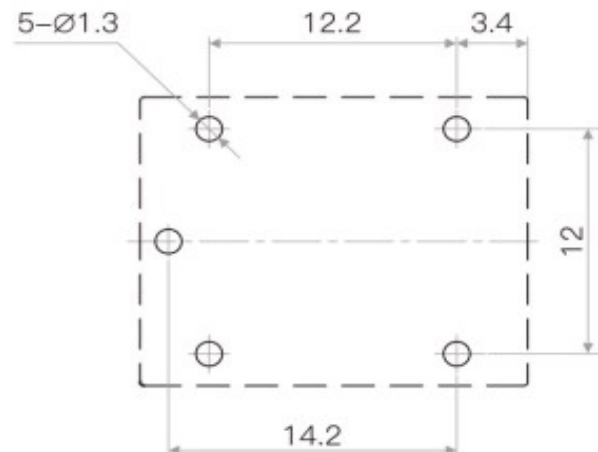
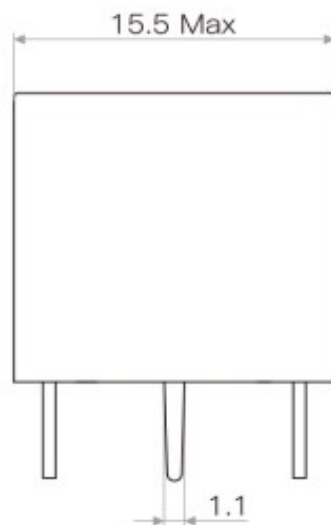
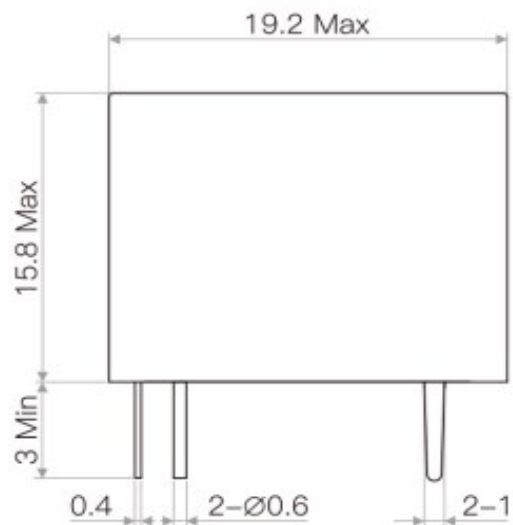
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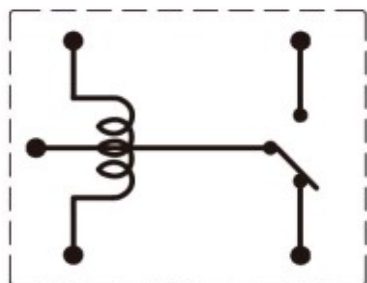
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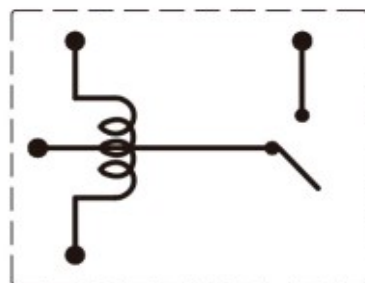
OUTLINE DIMENSIONS (mm)



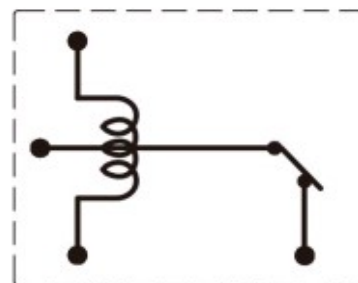
WIRING DIAGRAMM (BOTTEM VIEW)



Type C



Type A (Normally Oopen)



Type A (Normally Closed)

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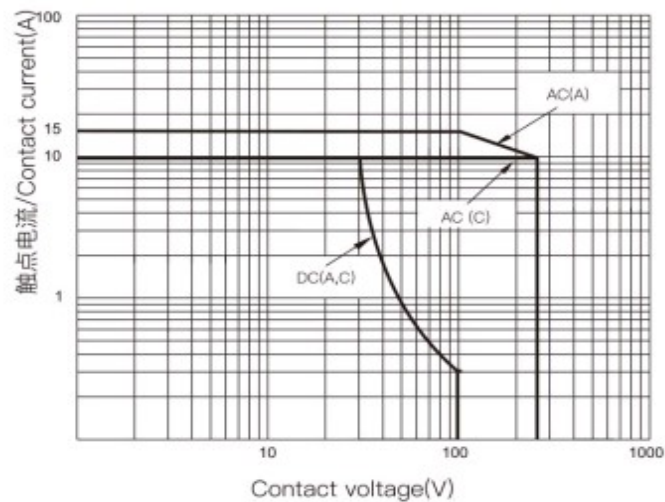
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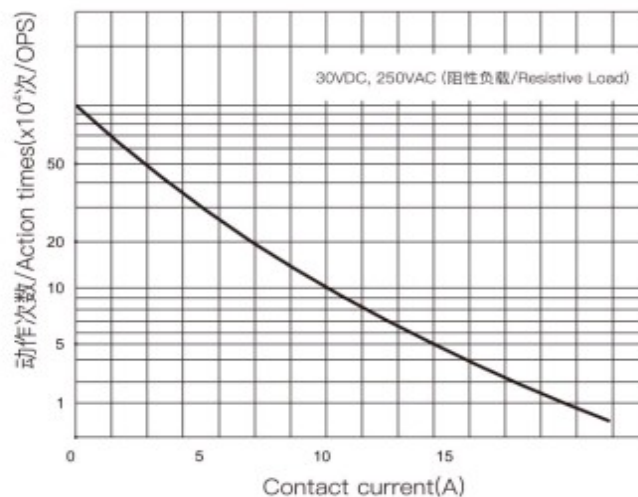


CHARACTERISTICS CURVES

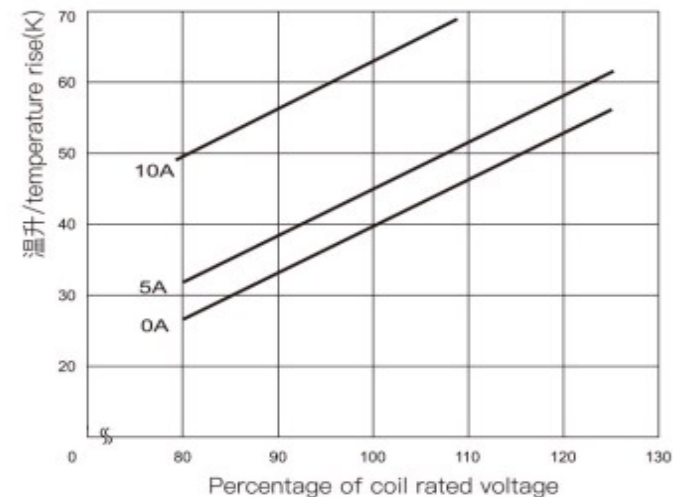
Maximum switching power



Electrical endurance curve



Coil temperature rise



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CONTACT PARAMETERS

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Contact material	银合金/Silver alloy: $\text{AgSnO}_2\text{In}_2\text{O}_3$, AgSnO_2 , AgNi
Contact rating(Res. load)	7A/10A/15A 250VAC/28VDC, 10A 125VAC
Max switching voltage	277VAC/30VDC
Max switching current	15A
Max switching power	2770VA/300W
Electrical endurance (Frequency:360 ops/h)	$1 \times 10^5\text{ops}$ / $1 \times 10^4\text{ops}$
Mechanical endurance (Frequency:18000 ops/h)	$1 \times 10^7\text{ops}$

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Ordering Informations

Serie	Coil Voltage	Construction	Coil Power	Contact Type	Special function	Special function	Special function	ROHS	Packing	
P12018	03	S	L	A	N	N	N	R		
	03= 3Volt	S= Sealed	L= 0,36Watt	A= Contact Type A	N= No function	N= No function	N= No function	R= ROHS Conform	Tube or Tray	
	xx= like Page 3	F= Flux proofed	D= 0,45Watt	B= Contact Type B				N= NON ROHS Conform		
				C= Contact Type C						

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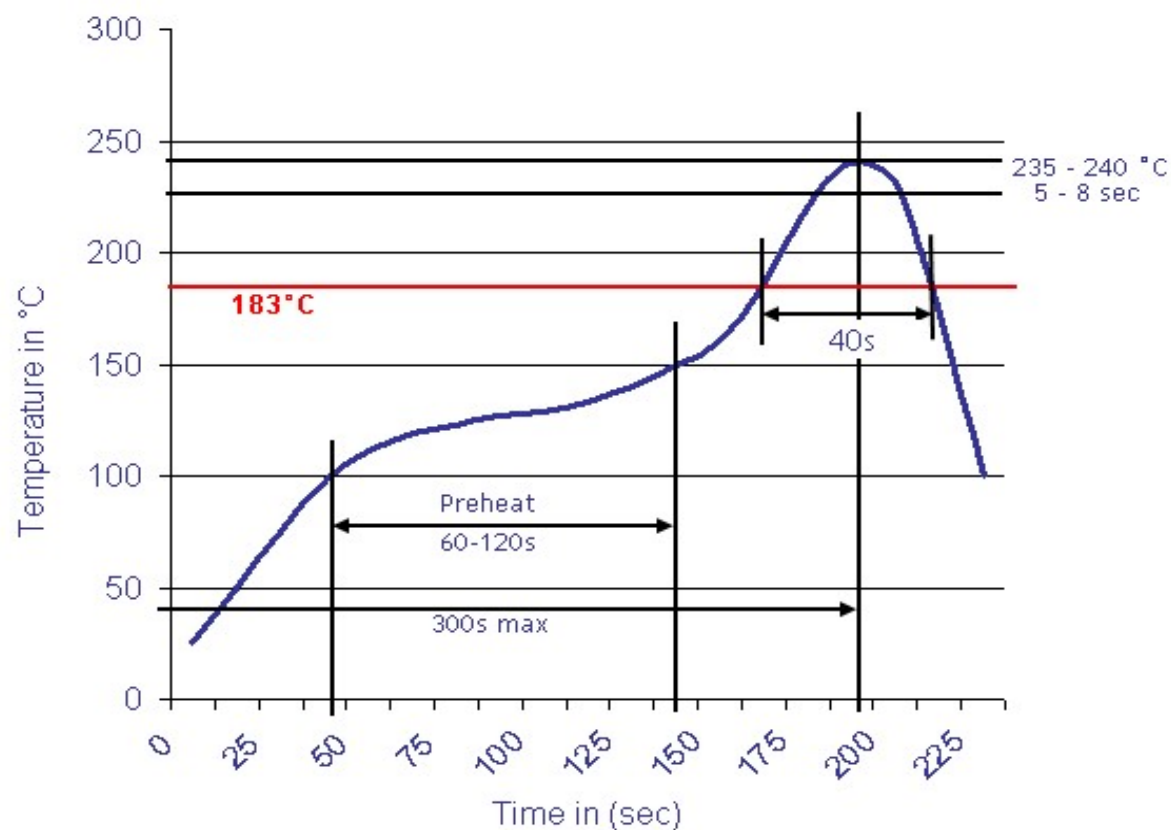
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)


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