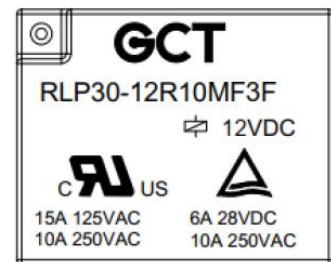


PRODUCT SPECIFICATION

Part Number	RLP30	Rev	A	Date	28/04/26
Product Description	PCB Mounted Power Relay, Through Hole				Page 1
Doc Number	RLP30	Prepared	CC	Checked	YR
		Approved			PH

Features:

- 10A Load
- Contact arrangement: Form A (SPST-NO) & Form C (SPDT)
- Insulation system: UL Class F
- Non latching
- Approvals: UL, TÜV
- Contact Material: Silver Alloy
- Operating Temperature: -40°C to +85°C
- Operating Humidity: 20% to 85%RH
- Storage Conditions: +5°C to +35°C, 15% to 60%RH
- Outline Dimensions: L x W x H = 19.2x15.5x15.25mm
- Weight: ~7.63g
- Packaging: 50pcs/tray, 1000 pcs/carton
- RoHS compliant



Ordering Grid:

RLP30		XX	R10	X	X	3	F	
Rated Coil Voltage						Insulation System		
03 = 3 VDC 12 = 12 VDC						F = Class F		
05 = 5 VDC 24 = 24 VDC						Contact Material		
09 = 9 VDC						3 = AgSnO ₂		
Coil Power Consumption & Load Current						Enclosure		
						F = Flux Tight		
						S = Sealed		
360 mW:						Contact Arrangement		
R10 = 10A/250VAC						M = Form A (SPST-NO)		
						C = Form C (SPDT)		

PRODUCT SPECIFICATION

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Standard Part numbers

Part number	Coil voltage	Coil power	Load current	Contact Arrangement	Enclosure	Contact Material	Insulation System
RLP30-05R10MF3F	5VDC	360mW	10A	Form A	Flux Tight	AgSnO ₂	Class F
RLP30-12R10MF3F	12VDC						
RLP30-24R10MF3F	24VDC			Form C			
RLP30-05R10CF3F	5VDC						
RLP30-12R10CF3F	12VDC						
RLP30-24R10CF3F	24VDC						

Notes: Standard part numbers are more widely available, please contact GCT if non-standard is needed

Coil Rating

Rated Voltage VDC	Rated Current mA	Must operate Voltage VDC	Must Release Voltage VDC	Rated Power mW	Resistance $\Omega(\pm 10\%)$	Max. Continuous Voltage VDC	Insulation System
3	120	2.25	0.15	360mW	25	130% of rated Voltage	Class F
5	72	3.75	0.25		69		
9	40	6.75	0.45		225		
12	30	9.00	0.60		400		
24	15	18.0	1.20		1600		
48	7.5	36.0	2.40		6400		

Contact Data

Contact Arrangement	Load Current	Electrical Endurance	Mechanical Endurance	Max. Switching Voltage	Max. Switching Current	Max. Switching Power	Operate Time	Release Time
Form A	15A at 125VAC	6x10 ³ ops. on:off=1s:9s	10x10 ⁶ ops.	277VAC or 28VDC	15A	2500VA (280W)	$\leq 10\text{ms}$	$\leq 5\text{ms}$
	10A at 250VAC 6A at 28VDC	5x10 ⁴ ops. on:off=1.5s:1.5s						
Form C	No: 10A at 250VAC	5x10 ⁴ ops. on:off=1.5s:1.5s						
	NC: 6A at 28VDC 6A at 250VAC	5x10 ⁴ ops. on:off=1.5s:1.5s						

PRODUCT SPECIFICATION

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Characteristics

Insulation Resistance	Contact Resistance	Dielectric Strength		Vibration	Shock		Impulse Withstanding Voltage
		Between Open contacts	Between coil and contacts		Functional	Destructive	
1000MΩ At 500VDC	100mΩ (1A, 5VDC)	750V rms 1 min.	1500V rms 1 min.	10Hz-55Hz, at double amplitude 1mm	10G	100G	4KV

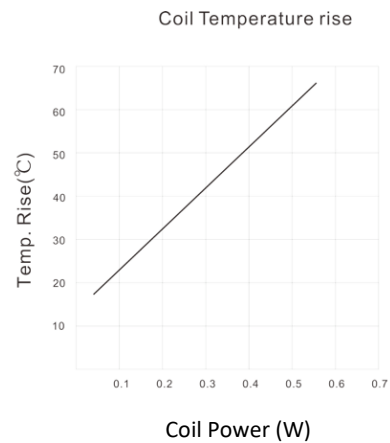
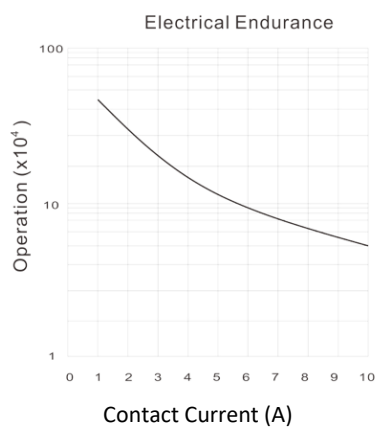
Other Data

UL Certification	TÜV Certification	Creepage Distance	Clearance Distance	Pollution Degree
E550899	R507112480001	1.6mm	3.2mm	3

Notes

1. All the performance data are measured at a coil temperature of 23°C.
2. All the performance data are initial values.

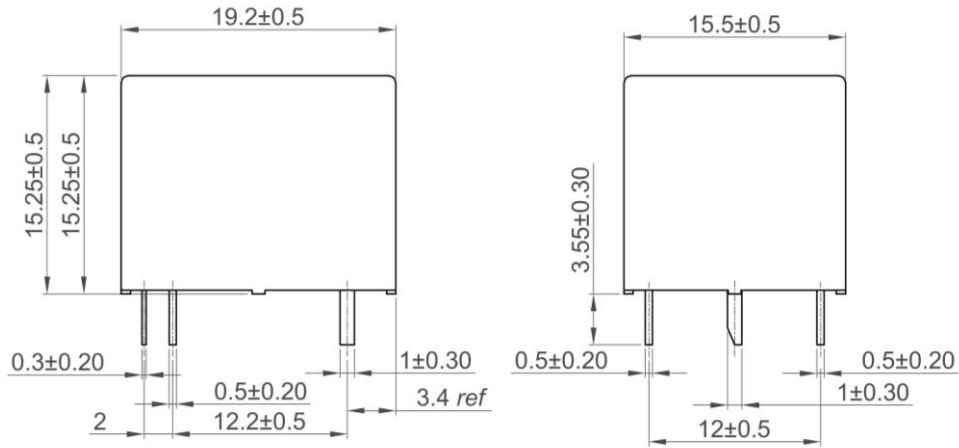
Derating Diagram



PRODUCT SPECIFICATION

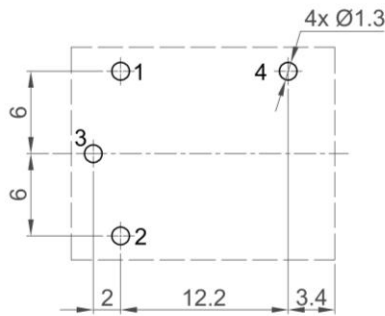
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Outline Dimensions



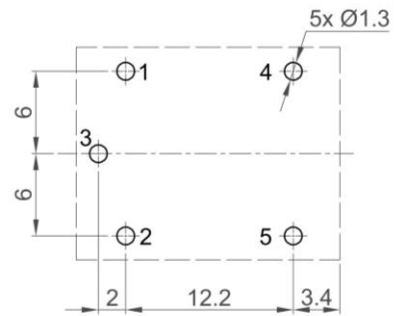
PCB Layout

Form A (SPST-NO)



Recommended PCB Layout
Bottom View
Tolerance: ±0.10mm
□ Component Outline

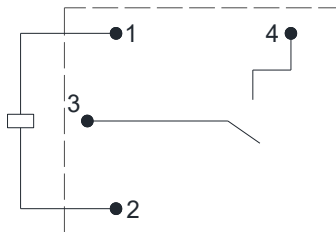
Form C (SPDT)



Recommended PCB Layout
Bottom View
Tolerance: ±0.10mm
□ Component Outline

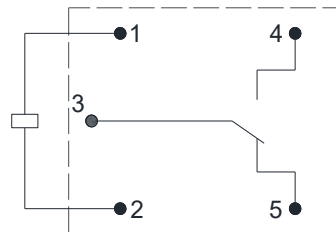
Diagram:

Form A (SPST-NO)



Bottom View

Form C (SPDT)

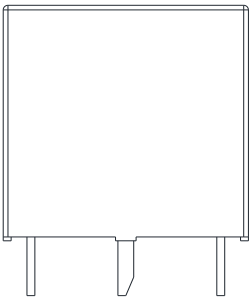
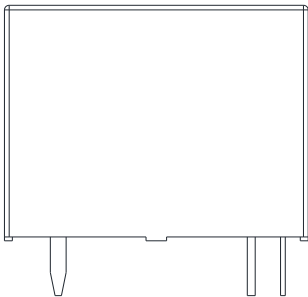
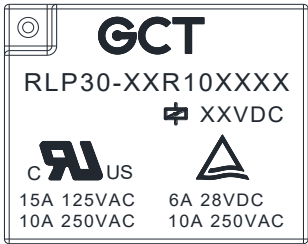


Bottom View

PRODUCT SPECIFICATION

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Logo and marking on product (Reference only)



Revision details:

Revision	Information	Page	Release Date
0.7	Draft for review	-	10/04/2026
A	First Release	-	28/04/2026