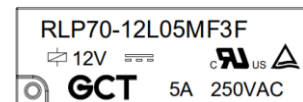


PRODUCT SPECIFICATION

Part Number	RLP70			Rev	A		Date	28/04/26
Product Description	PCB Mounted Relay, Through Hole						Page	1
Doc Number	RLP70	Prepared	CC	Checked	YR	Approved	PH	

Features:

- 5A to 10A Load
- Contact arrangement: Form A (*SPST-NO*)
- Impulse withstand voltage: 10kV
- Width 7mm, suitable for high-density installation
- Support hold voltage, PWM control, save energy
- 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 = 20.4x7.0x15.0mm
- Weight: ~3.68g
- Packaging: 100pcs/tray, 1000 pcs/carton
- RoHS compliant



Ordering Grid:

RLP70 — XX XXX M X X F					
Rated Coil Voltage		Insulation System		Contact Material	
03 = 3 VDC 12 = 12 VDC		F = Class F		1 = AgNi	
05 = 5 VDC 18 = 18 VDC				3 = AgSnO ₂	
06 = 6 VDC 24 = 24 VDC				Enclosure	
09 = 9 VDC				F = Flux Tight	
Coil Power Consumption & Load Current				S = Sealed	
200 mW:				Contact Arrangement	
L05 = 5A (AgNi / AgSnO ₂)				M = Form A (<i>SPST-NO</i>)	
L07 = 7A (AgNi / AgSnO ₂)					
L10 = 10A (AgSnO ₂)					

PRODUCT SPECIFICATION

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Standard Part numbers

Part number	Coil voltage	Coil power	Load current	Contact Arrangement	Enclosure	Contact Material	Insulation System
RLP70-05L05MF3F	5VDC	200mW	5A	Form A	Flux Tight	AgSnO ₂	Class F
RLP70-24L05MF3F	24VDC						
RLP70-05L07MF3F	5VDC						
RLP70-12L07MF3F	12VDC						
RLP70-24L07MF3F	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	66.7	2.25	0.15	200mW 32mW (40% hold voltage) 50mW (50% hold voltage)	45	160% of rated Voltage	Class F
5	40	3.75	0.25		125		
6	33.3	4.50	0.30		180		
9	22.2	6.75	0.45		405		
12	16.7	9.00	0.60		720		
18	11.1	13.5	0.90		1620		
24	8.3	18.0	1.20		2880		

Contact Data

Contact Material	Load Current	Electrical Endurance	Mechanical Endurance	Max. Switching Voltage	Max. Switching Current	Max. Switching Power	Operate Time	Release Time
AgNi	5A/7A at 125/250/277VAC	5x10 ⁴ ops. on:off=1s:9s	5x10 ⁶ ops.	277VAC or 30VDC	10A	2770VA (150W)	≤ 10ms	≤ 10ms
AgSnO ₂	5A/7A /10A at 125/250/277VAC	1x10 ⁴ ops. on:off=1s:9s						

PRODUCT SPECIFICATION

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Characteristics

Insulation Resistance	Contact Resistance	Dielectric Strength		Vibration	Shock		Impulse Withstand Voltage
		Between Open contacts	Between coil and contacts		Functional	Destructive	
1000MΩ At 500VDC	100mΩ (1A, 5VDC)	750V rms 1 min.	4000V rms 1 min.	10Hz-55Hz, at double amplitude 1mm	10KV	100G	10KV

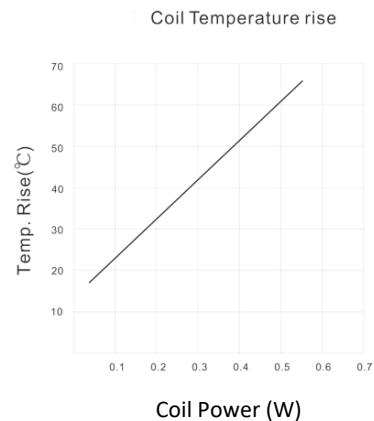
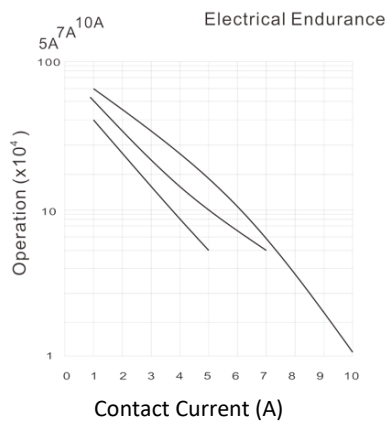
Other Data

UL Certification	TÜV Certification	Creepage Distance	Clearance Distance	Pollution Degree
E550899	R507113940001	6mm	6mm	3

Notes

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

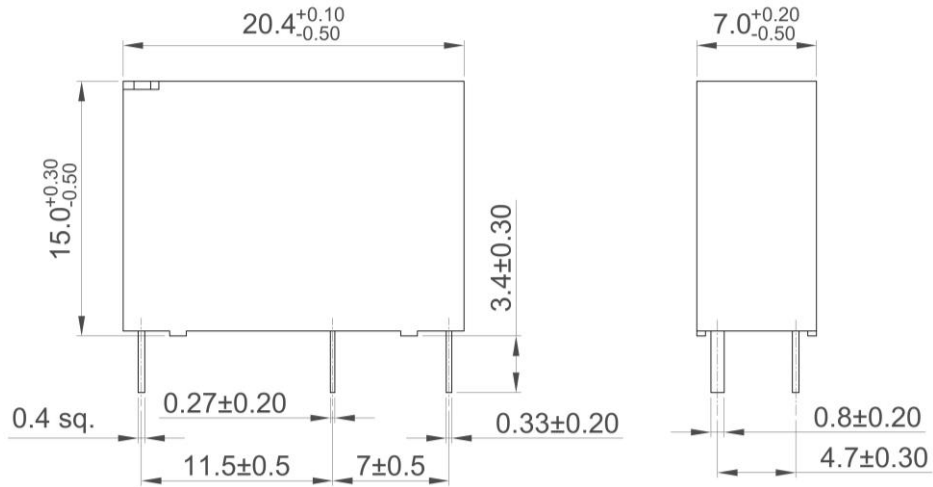
Derating Diagram



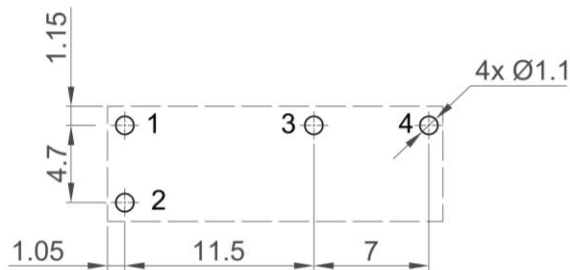
PRODUCT SPECIFICATION

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Outline Dimensions



PCB Layout: Form A (SPST-NO)



Recommended PCB Layout

Bottom View

Tolerance: ±0.10mm

□ Component Outline

Diagram: Form A (SPST-NO)

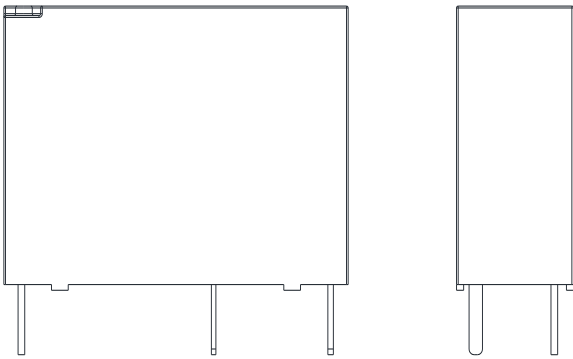


Bottom View

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