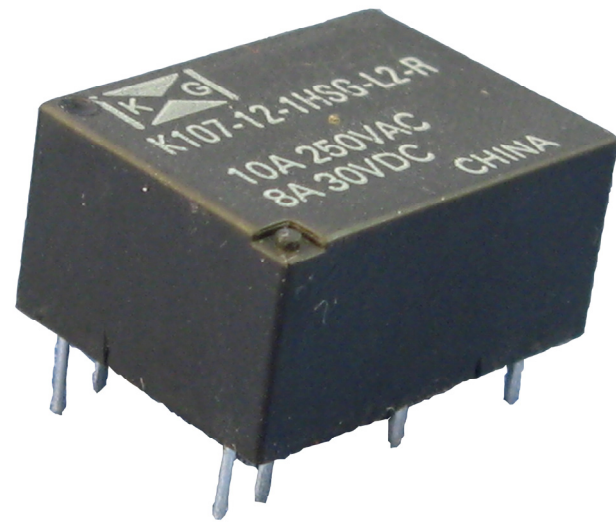


Miniature Power Latching Relay

- High Switching Capability
- RoHS Compliant
- High Sensitivity
- 4kV Dielectric Strength
- Latching and Non-Latching Available



K107 Specifications

Contact Data			Characteristics	
Contact Arrangement	1A	2A, 1X (1A+1B)	Insulation resistance	1000MΩ (at 500VDC)
			Dielectric strength:	
			coil to contact	4000 Vac for 1 min.
			across open contacts	1000 Vac for 1 min.
Contact material	AgCdO ₂			
Initial contact resistance	Min: 30mΩ (1A @ 6VDC)			
Rated Load	10A @ 250VAC	8A @ 250VAC		
			Set time – latching	10ms Max.
			Reset time - latching	10ms Max.
Max. Switching Voltage	277VAC	277VAC	Operating temperature	-40 C to + 70°C
Max. Switching Current	10A	8A	Storage temperature	-40 C to + 100°C
Max. Switching Power	2500VA	2000A	Humidity	5 to 85% RH
			Vibration	1.5mm (DA), 10~55 Hz
Expected life:				
electrical (rated load)	1 x 10 ⁵	3 x 10 ⁴	Shock:	
mechanical	5 x 10 ⁷		Functional	98m/s ² (20g)
			Destructive	980m/s ² (100g)
			Dimensions	52.0 x 43.0 x 22mm
			Unit Weight	Approx. 6g
			Termination	PCB

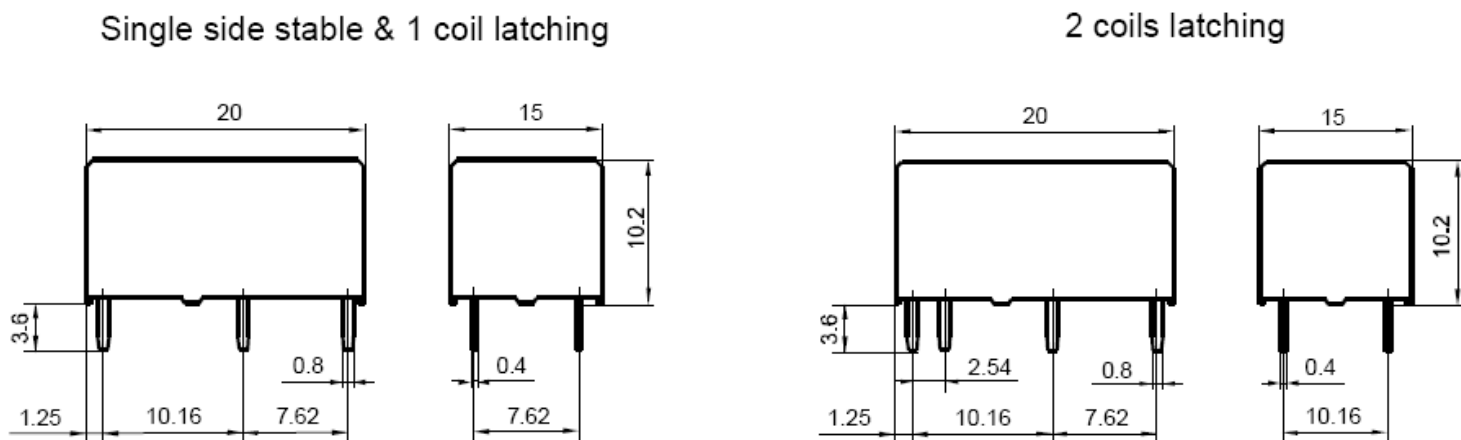
Coil data				
	Single Coil (Latching)	Dual Coil (Latching)	Non-Latching	
Coil consumption	200mW	280mW	280mW	
Pulse Duration	Min.20ms (100ms to 200mS Recommended)			
Nominal coil voltage	Min Operating voltage	Coil resistance (Ω ± 10%) @ 23°C		
		Single Coil (Latching)	Dual Coil (Latching)	Non Latching
3Vdc	2.1Vdc	45Ω	2 x 32.1Ω	32.1Ω
5Vdc	3.5Vdc	125Ω	2 x 89.3Ω	89Ω
6Vdc	4.2Vdc	180Ω	2 x 129Ω	129Ω
9Vdc	6.3Vdc	405Ω	2 x 289Ω	289Ω
12Vdc	8.4Vdc	720Ω	2 x 514Ω	514Ω
24Vdc	16.8Vdc	2880Ω	2 x 2056Ω	2056Ω

Ordering Information

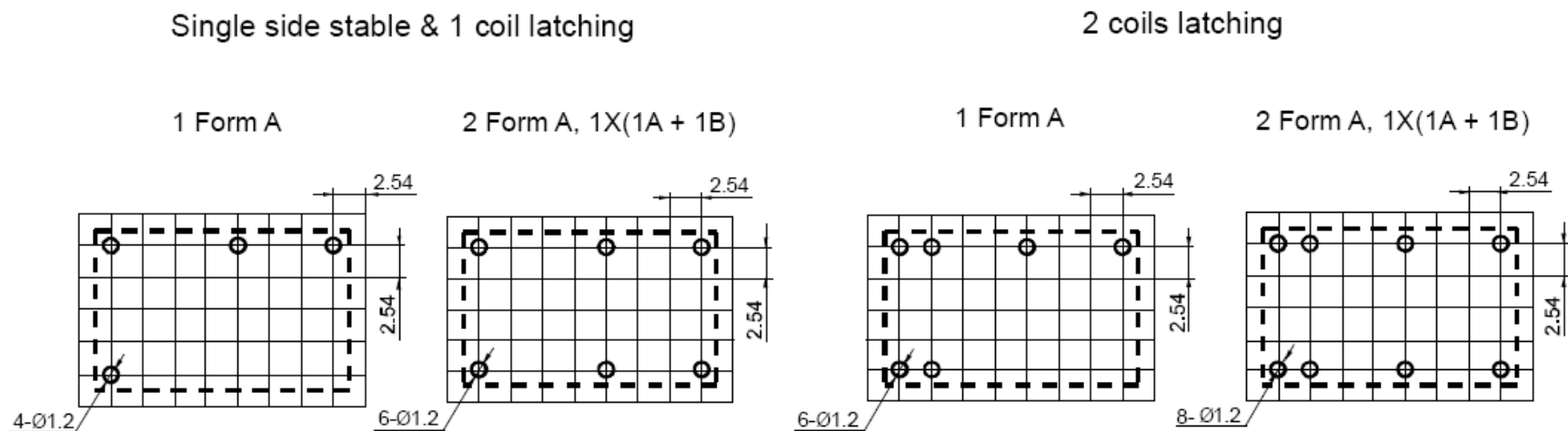
Relay Series	K107	- 12	- 1H	S	G	- L2	-R	- 555
Coil Voltage	6, 12, 24, 48 VDC							
Contact Form	1H: 1A 1HD: 1X (1A+1B) 2H: 2A							
Sealing	S: Sealed IP67 Leave blank for none							
Contact Plating	G: Gold Plating Leave blank if no Gold Plating is used							
Coil Type	L1: Single Coil L2: Dual Coil Leave blank for Non-Latching version							
Coil Polarity	R: Reverse Polarity Leave blank for standard polarity							
Special	555: RoHS Compliant							

DIMENSIONAL DRAWINGS

Outline Dimensions



PCB Layout

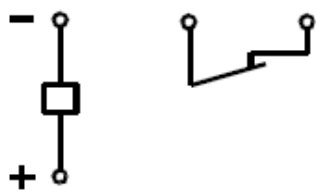


Application Notes

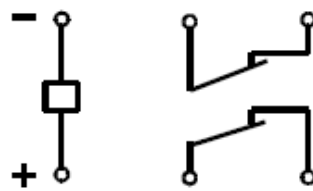
Wiring Diagram (Bottom view)

Single side stable (Deenergized condition)

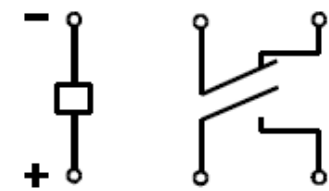
1 Form A



2 Form A

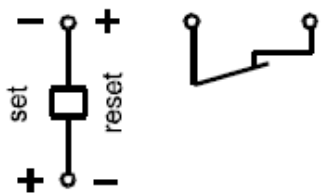


1X(1A + 1B)

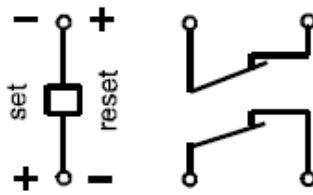


1 coil latching (Set condition)

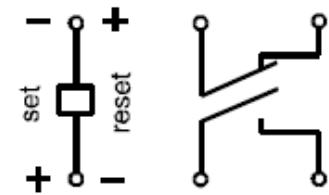
1 Form A



2 Form A

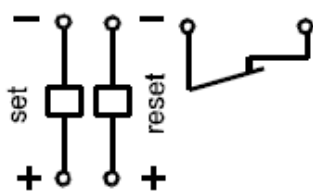


1X(1A + 1B)

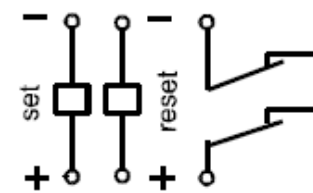


2 coils latching (Set condition)

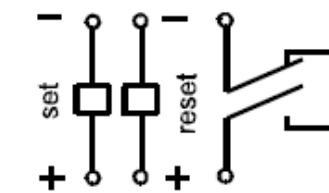
1 Form A



2 Form A



1X(1A + 1B)



Disclaimer

This datasheet is for reference only. All specifications are subject to change without prior notice. KG Technologies, Inc. cannot predict every possible application for our relays. While we do our best to make our relays as versatile as possible, we highly recommend contacting our engineering team if you have any questions. KG Technologies, Inc. is not responsible for malfunctioning relays when operated outside the specified parameters given in this datasheet.