

Coil	Resistance	Order code	1+	25+	100+	500+
3V DC	25Ω	<b>60-0302</b>	<b>0.65</b>	<b>0.50</b>	<b>0.38</b>	<b>0.34</b>
6V DC	100Ω	<b>60-0300</b>	<b>0.65</b>	<b>0.50</b>	<b>0.38</b>	<b>0.34</b>
12V DC	400Ω	<b>60-0310</b>	<b>0.65</b>	<b>0.50</b>	<b>0.38</b>	<b>0.34</b>
24V DC	1470Ω	<b>60-0304</b>	<b>0.65</b>	<b>0.50</b>	<b>0.38</b>	<b>0.34</b>

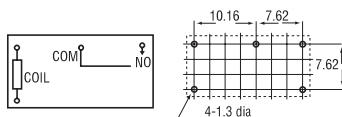
## PCB Power relays

### Power relay SPST 5A

A high capacity miniature relay with high electrical noise immunity, high sensitivity (200mW) and high surge voltage (8000V) between coil and contacts.

- UL, CSA, SEMKO, TUV and VDE approved
- Matsushita JQ1AP series

Matsushita



Bottom View

Technical specification	
Dimensions	20 x 10 x 15.6mm
Contact rating	5A 277V AC/10A 125V AC
Max. switching capacity	2500 VA
Contact arrangement	Single pole, single throw
Contact material	Silver alloy
Coil sensitivity	200mW
Operate/release time	6ms/4ms max.
Pick-up/drop-out voltage	80%/5%
Operating life	Mechanical: 1 x 107 operations min. Electrical: 5 x 104 operations min.

Coil	Resistance	Order code	1+	25+	50+	100+
12V DC	720Ω	<b>60-4235</b>	<b>2.32</b>	<b>2.10</b>	<b>1.82</b>	<b>1.55</b>

### Sugar cube-sized PCB relay SPST 5A Kam Ling

Single pole relay for direct mounting to printed circuit boards.

- Very low power consumption typically 360mW
- 24V DC or 110V AC
- Flux tight construction
- Small size, less than 0.53 cubic inches
- Capable of switching 5A loads
- Low profile
- Low coil power consumption
- All sealed and resistant to wave soldering and cleaning
- Kam Ling KU1T-F series



Technical specification	
Dimensions	16.2 x 21.3 x 22.7
Contact rating	5A at 24V DC or 240V AC (AgCdO)
Contact arrangement	SPST
Coil voltages	3V, 6V, 12V, 24V available
Pickup voltage	80% of rated voltage
Contact resistance	100mΩ Max.
Operate time	15ms max. (at rated voltage)
Release time	10ms max.
Insulation resistance	100Ω min.
Dielectric strength	750 VAC (1 Min.)
Ambient temperature	Operating: -10°C to +50°C
Humidity	45% to 85% RH
Operating life	Mechanical: 1 x 10 <sup>7</sup> Operations min. Electrical: 1 x 10 <sup>7</sup> Operations min. (at contact ratings)

Coil	Resistance	Order code	1+	25+	100+	500+
3V DC	25Ω	<b>60-0362</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
6V DC	95Ω	<b>60-0364</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
12V DC	385Ω	<b>60-0366</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
24VDC	1500Ω	<b>60-0368</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>

Wide range of adhesive tapes

– see page 983

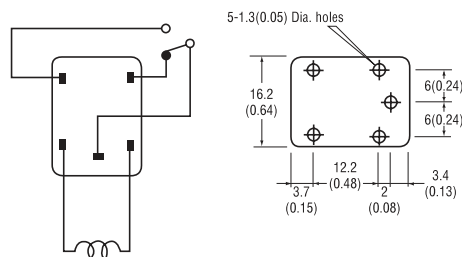


### Miniature relay SPDT 5A

Single pole relay for direct mounting to printed circuit boards.

- Very low power consumption typically 360mW
- Flux tight construction
- Equivalent to Fujitsu FBR111 and Omron LC1N
- Kam Ling KU1T-F series

Kam Ling



Technical specification	
Dimensions	21.3 x 16.2 x 18.5mm
Contact rating	5A at 24V DC or 110V AC (80W)
Contact arrangement	Single pole changeover
Coil voltages	3V, 6V, 12V, 24V DC
Pickup voltage	80% of rated voltage
Operating life	Mechanical: 1 x 107 operations min. Electrical: 1 x 105 operations min.

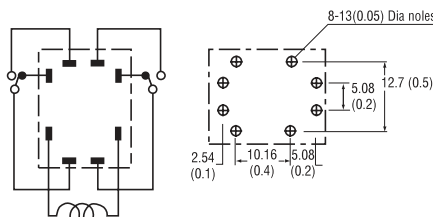
Type	Resistance	Order code	1+	25+	100+	500+
3V DC	25Ω	<b>60-0352</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
6V DC	100Ω	<b>60-0350</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
12V DC	400Ω	<b>60-0360</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>
24V DC	1440Ω	<b>60-0354</b>	<b>0.75</b>	<b>0.59</b>	<b>0.48</b>	<b>0.42</b>

### Miniature relay DPDT 5A

Double pole changeover relay in a low profile package for mounting to printed circuit boards.

- Low power consumption typically 510mW
- Flux tight construction
- Kam Ling KL2P series

Kam Ling



Technical specification	
Dimensions	21.5 x 17 x 16.2mm
Contact rating	5A at 24V DC or 110V AC (120W) (AgCdO)
Contact arrangement	Double pole changeover
Coil voltages	5V, 6V, 12V, 24V DC
Pickup voltage	75% of rated voltage
Operating life	Mechanical: 1 x 107 operations

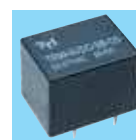
Coil	Resistance	Order code	1+	25+	100+	500+
5V DC	47Ω	<b>60-0401</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>
6V DC	70Ω	<b>60-0400</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>
12VDC	280Ω	<b>60-0410</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>
24V DC	1030Ω	<b>60-0402</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>

### Miniature 5A DPDT relay

A low cost double pole changeover relay in a low profile package, for mounting on printed circuit boards.

- Low power consumption typically 500mW
- Washable construction

RVFM



Technical specification	
Dimensions	21.6 x 16.0 x 16.5mm
Contact rating	5A at 28V DC or 110V AC
Contact material	Silver alloy
Contact arrangement	Double pole changeover
Coil voltages	6V and 12V DC
Pickup voltage	80% of rated voltage
Operating life	Mechanical: 10 x 10 6 operations Electrical: 10 x 10 4 operations

Coil	Resistance	Order code	1+	25+	100+	500+
6V DC	80Ω	<b>60-0405</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>
12V DC	320Ω	<b>60-0415</b>	<b>0.98</b>	<b>0.80</b>	<b>0.69</b>	<b>0.62</b>