# **LPS/ILPINE**

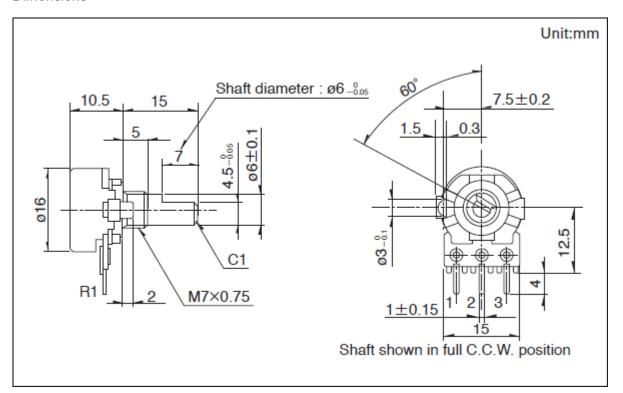
# 16mm Size Metal Shaft Type RK163 Series

Number of resistor elements         Single—unit           Mounting direction         Horizontal type           Fixing method of bushing         Sorew           Shaft types         Flat           Terminal style         For PC board           Length of the shaft         15mm           Center detent         Without           Total resistance         10k Ω           Resistance taper         1B           Operating temperature range         -10°C to +70°C           Electrical Performance tolerance         ±20%           Rated power         0.1W           Maximum operating voltage         150V AC, 5V DC           voltage         20Ω max.           Insulation resistance         100MΩ min. 500V DG           Voltage proof         500V AC for 1 minute           Mechanical Performance         Total rotational angle         300° ±3°           Rotational torque         3 to 25mNm           Stopper strength         0.9Nm           Push-pull strength         100N max.           Vibration         10 to 55 to 10Hz/min, the amplitude is 1.5mm for all the frequence of X, Y and Z and for 2 hours respectively			
Same	Number of resistor eler	ments	Single-unit
Flat   For PC board	Mounting direction		Horizontal type
Terminal style For PC board  Length of the shaft 15mm  Center detent Without  Total resistance 10k Ω  Resistance taper 1B  Operating temperature range -10°C to +70°C  Electrical Performance Total resistance tolerance  Rated power 0.1W  Maximum operating voltage  Residual resistance 20 Ω max.  Insulation resistance 100M Ω min. 500V DC  Voltage proof 500V AC for 1 minute  Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min, the amplitude is 1.5mm for all the frequence of the strength of the streng	Fixing method of bushing		Screw
Length of the shaft     15mm       Center detent     Without       Total resistance     10k Ω       Resistance taper     1B       Operating temperature range     -10°C to +70°C       Electrical Performance     ±20%       Rated power     0.1W       Maximum operating voltage     150V AC, 5V DC       Residual resistance     20 Ω max.       Insulation resistance     100M Ω min. 500V DC       Voltage proof     500V AC for 1 minute       Mechanical Performance     Total rotational angle     300° ±3°       Rotational torque     3 to 25mN·m       Stopper strength     0.9N·m       Push-pull strength     100N max.       Vibration     10 to 55 to 10Hz/min, the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively       Durability     Operating life     15,000 cycles	Shaft types		Flat
Center detent   Without	Terminal style		For PC board
Total resistance   10k Ω	Length of the shaft		15mm
Resistance taper   18	Center detent		Without
Operating temperature range       -10°C to +70°C         Electrical Performance       Total resistance tolerance       ±20% tolerance         Rated power       0.1W         Maximum operating voltage       150V AC, 5V DC         Residual resistance       20 Ω max.         Insulation resistance       100M Ω min. 500V DC         Voltage proof       500V AC for 1 minute         Mechanical Performance       Total rotational angle       300° ±3°         Rotational torque       3 to 25mN·m         Stopper strength       0.9N·m         Push-pull strength       100N max.         Vibration       10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequence of the 3 direction of X, Y and Z and for 2 hours respectively         Durability       Operating life       15,000 cycles	Total resistance		10kΩ
Electrical Performance  Total resistance tolerance  Rated power  0.1W  Maximum operating voltage  Residual resistance 20 Ω max.  Insulation resistance 100M Ω min. 500V DC  Voltage proof 500V AC for 1 minute  Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min, the amplitude is 1.5mm for all the frequence the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles	Resistance taper		1B
tolerance  Rated power 0.1W  Maximum operating voltage 150V AC, 5V DC voltage  Residual resistance 20Ω max.  Insulation resistance 100MΩ min. 500V DC  Voltage proof 500V AC for 1 minute  Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles	Operating temperature range		-10°C to +70°C
Maximum operating voltage       150V AC, 5V DC         Residual resistance       20 Ω max.         Insulation resistance       100M Ω min. 500V DC         Voltage proof       500V AC for 1 minute         Mechanical Performance       Total rotational angle       300° ±3°         Rotational torque       3 to 25mN·m         Stopper strength       0.9N·m         Push-pull strength       100N max.         Vibration       10 to 55 to 10Hz/min, the amplitude is 1.5mm for all the frequency that 3 direction of X, Y and Z and for 2 hours respectively         Durability       Operating life       15,000 cycles	Electrical Performance		±20%
$\begin{tabular}{ll} voltage \\ Residual resistance & $20\Omega$ max. \\ \hline Insulation resistance & $100M\Omega$ min. 500V DC \\ \hline Voltage proof & $500V$ AC for 1 minute \\ \hline Mechanical Performance & $Total$ rotational angle & $300^\circ$ \pm 3^\circ$ \\ \hline Rotational torque & $3$ to $25mNm$ \\ \hline Stopper strength & $0.9N$ m$ \\ \hline Push-pull strength & $100N$ max. \\ \hline Vibration & $10$ to $55$ to $10Hz/min., the amplitude is $1.5mm$ for all the frequency of the $3$ direction of X, Y and Z and for 2 hours respectively \\ \hline Durability & Operating life & $15,000$ cycles \\ \hline \end{tabular}$		Rated power	0.1W
Insulation resistance 100MΩ min. 500V DC  Voltage proof 500V AC for 1 minute  Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles			150V AC, 5V DC
Voltage proof 500V AC for 1 minute  Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequence the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Residual resistance	20Ω max.
Mechanical Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Insulation resistance	100MΩ min. 500V DC
Performance  Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Voltage proof	500V AC for 1 minute
Rotational torque 3 to 25mN·m  Stopper strength 0.9N·m  Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Total rotational angle	300° ±3°
Push-pull strength 100N max.  Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Rotational torque	3 to 25mN·m
Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequency the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Stopper strength	0.9N·m
the 3 direction of X, Y and Z and for 2 hours respectively  Durability Operating life 15,000 cycles		Push-pull strength	100N max.
		Vibration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z and for 2 hours respectively
Mii	Durability	Operating life	15,000 cycles
	Matinian and a single	1	600

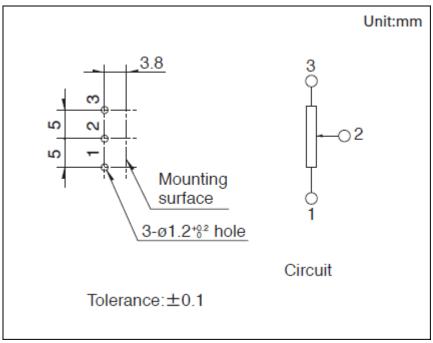
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#### **Dimensions**



## Mounting Hole Dimensions



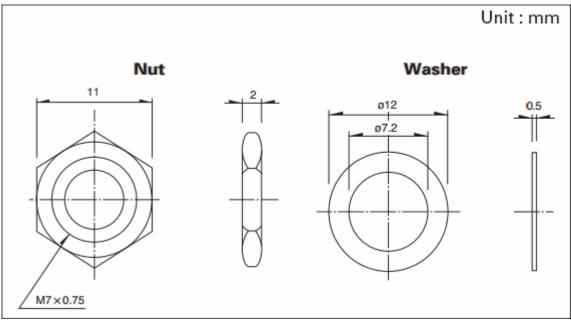
Viewed from mounting side.

#### **Attached Parts**

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These parts are attached to the following products.

#### **Packing Specifications**

Bulk		
Number of packages (pcs.)	1 case / Japan	600
	1 case / export packing	1,200
Export package measurements (mm)		532 × 326 × 386

## **Soldering Conditions**

#### Reference for Hand Soldering

Tip temperature	350°C max.
Soldering time	5s max.
No. of solders	1 time

#### Notes are common to this series/models.

- 1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
  2. Please place purchase orders per minimum order unit (integer).
- 3. Products other than those listed in above products are also available. Please contact us for details.

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