

## 12MM SIZE ROTARY POTENTIOMETERS (SQUARE TYPE)

### **Mechanical Characteristics:**

	<i>Model ER1212 / 1213</i>	<i>Model ER12V /ER12H</i>
Total rotational angle	$300^\circ \pm 10^\circ$	
Rotational torque	2 ~ 15mN.m (20 ~150gf.cm)	20-200gf.cm
Rotation stopper strength	0.3N.m (3kgf.cm)	
Push pull strength	40N (4kgf)	5 kgf.Max.
Click Torque	Rotational torque + (20-100gf.cm)	

### **Electrical characteristics:**

Nominal total resistance	500Ω~1MΩ	
Total resistance tolerance	$\pm 20\%$ (more than 1MΩ $\pm 30\%$ )	
Resistance taper	A, B, C	
Residual resistance	R≥250KΩ 250KΩ >R>10 KΩ 10 KΩ≥R	(0.1% max. of total resistance) 20Ω max 10Ω max
Rated Power	B : 0.04W Other than B : 0.02W	0.05 W 0.03 W
Max. operating voltage	B : 100V AC Other than B : 50 V AC	B 150 V AC/10 V DC 100V AC/10V DC
Sliding noise	Less than 47mv	Less than 80mv
Insulation resistance	More than 50MΩ at DC 250V	More than 10050MΩ at DC 500V
Withstand voltage	AC 250V (1minute)	for 1 Minute or More at 300V AC
Gang Error	-40dB ~ 0dB	$\leq \pm 3\text{dB}$

### **Durability:**

Rotational life	15,000 Cycles
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