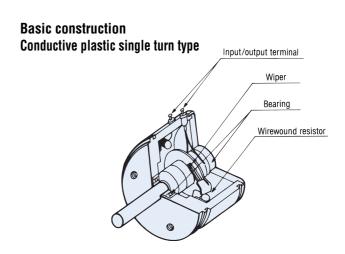
Conductive plastic single turn type

JC series





■ FEATURES

- Compact
- Cost effective (JC22E) in house comparison
- Long life
- High following characteristics
- High resolution (Essentially infinite)

■ PART NUMBER DESIGNATION

■ LIST OF PART NUMBERS

Size Item	Nominal resistance value	Independent linearity	Part number	
	1 kΩ		JC22E 1 k 1 %	
	2 kΩ	±1 %	JC22E 2 k 1 %	
	5 kΩ		JC22E 5 k 1 %	
	10 kΩ		JC22E 10 k 1 %	
φ 22 mm	200 Ω		→ JC22S 200 0.5 %	
	500 Ω		→ JC22S 500 0.5 %	
	1 kΩ	±0.5 %	JC22S 1 k 0.5 %	
	2 kΩ	±0.5 /0	JC22S 2 k 0.5 %	
	5 kΩ		JC22S 5 k 0.5 %	
	10 kΩ		JC22S 10 k 0.5 %	

^{*} Verify the above part numbers when placing orders.

The products indicated by $\ensuremath{\ensuremath{\,\widehat{\oplus}}}$ mark are manufactured upon receipt of order basis.

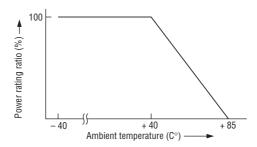
Size Item	Nominal resistance value	Independent linearity	Part number
φ 30 mm	500 Ω		JC30S 500 0.5 %
	1 kΩ		JC30S 1 k 0.5 %
	2 kΩ	±0.5 %	JC30S 2 k 0.5 %
	5 kΩ	±0.5 /0	JC30S 5 k 0.5 %
	10 kΩ		JC30S 10 k 0.5 %
	20 kΩ		JC30S 20 k 0.5 %
φ 40 mm	500 Ω		JC40S 500 0.3 %
	1 kΩ		JC40S 1 k 0.3 %
	2 kΩ	±0.3 %	JC40S 2 k 0.3 %
	5 kΩ	±0.5 /6	JC40S 5 k 0.3 %
	10 kΩ		JC40S 10 k 0.3 %
	20 kΩ		JC40S 20 k 0.3 %

■ STANDARD SPECIFICATIONS

Output	Single turn				
Item Part number	JC22E	JC22S	JC30S	JC40S	
Nominal resistance value	Refer to LIST OF PART NUMBERS				
Nominal resistance torelance %	± 20	± 15			
Resolution		Essentially infinit			
Independent linearity %	± 1 ± 0.5 (± 0.5		3, ± 0.1) **	± 0.3 (± 0.15, ± 0.05) *	
Effective electrical angle	320° ± 5°	340° ± 5°	343° ± 5°	345° ± 5°	
Mechanical angle	360° continuous				
Power rating (at 40 °C) W	0	0.5		1.5	
Dielectric strength Vrms	1000 1 min				
Insulation resistance $M\Omega$ minimum	1000 (at DC500 V)				
Rotational torque mN·m {gf·cm} maximum	4.9 {50}	0.98 {10}	1.18 {12}	1.47 {15}	
Strength of tighten screw N·m {kgf·cm} maximum	0.98 {10}	0.98 {10}			
Temp. coefficient resistance ppm/°C		± 400			
Operating temp. range °C	−40 ~ 85				
Maximum rotational speed min ⁻¹	100 300				
Rotational life (cycles)	10 million	20 million	30 million		
Output smoothness	0.1 % maximum				
Net weight g	Approx. 15	Approx. 17	Approx. 24	Approx. 56	

^{*} () are made after the receipt of order basis. The availability of the \pm 0.05 % linearity is limited to those resistance values that are greater than or equal to 5 k Ω .

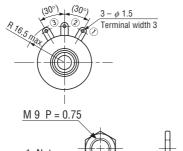
■ RATED POWER DERATING CURVE



■ OUTLINE DIMENSIONS

(Unit:mm)

● JC22E

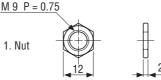


JC22E, JC22S JC30S, JC40S

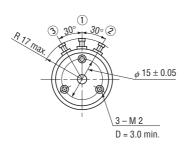
Wiring diagram

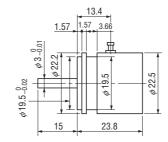


(JC22E Accessories)



JC22S



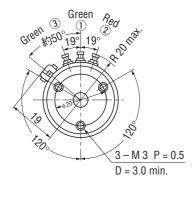


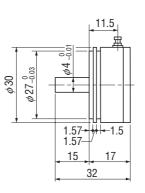
(34)

2. Washer

M 9 (P = 0.75)

JC30S





JC40S

