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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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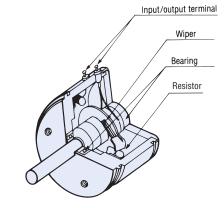


WIREWOUND SINGLE TURN TYPE





Basic construction Wirewound single turn type



Nominal resistance value (Ω)

500, 1 k, 2 k, 5 k, 10 k, 20 k, 50 k

FEATURES

- High linearity through precision wire winding
- Long life
- High following characteristics
- Low noise
- RoHS compliant

PART NUMBER DESIGNATION

J 50 S

500

Series name J40S J45S J50S

LIST OF PART NUMBERS

ltem Size	Nominal resistance value	Part number				
	500 Ω	J40S 500				
	1 kΩ	J40S 1 k				
<i>ϕ</i> 40 mm	2 kΩ	J40S 2 k				
	5 kΩ	J40S 5 k				
	10 kΩ	J40S 10 k				
	500 Ω	J45S 500				
	1 kΩ	J45S 1 k				
	2 kΩ	J45S 2 k				
<i>ϕ</i> 44.45 mm	5 kΩ	J45S 5 k				
	10 kΩ	J45S 10 k				
	20 kΩ	J45S 20 k				
	50 kΩ	J45S 50 k				
	500 Ω	J50S 500				
	1 kΩ	J50S 1 k				
	2 kΩ	J50S 2 k				
<i>ϕ</i> 50.8 mm	5 kΩ	J50S 5 k				
	10 kΩ	J50S 10 k				
	20 kΩ	J50S 20 k				
	50 kΩ	J50S 50 k				

st Verify the above part numbers when placing orders.

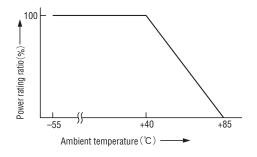
STANDARD SPECIFICATIONS

Item Part number	J40S	J45S	J50S				
Resistance torelance %	± 5						
Effective electrical angle	350° ± 1.5°	350° ± 1.5° 353° ± 1.5° 355° ± 1					
Mechanical angle	36	360° continuous					
Power rating (at 40 °C) W	1	1.3	1.5				
Dielectric strength Vrms		1000 1 min	1				
Insulation resistance $M\Omega$ minimum	1000 (at DC500 V)						
Rotational torque mN·m {gf·cm} maximum	0.59	0.69 {7}					
Peak noise Ω maximum	10 (4 min ⁻¹)						
Temp. coefficient of resistanceppm/°C	± 50						
Operating temp. range °C	-55 ~ 85						
Maximum rotational speed min ⁻¹	100	200					
Net weight g	Approx. 58	Approx. 60	Approx. 73				
Connecting accuracy	± 1° Based on No. 1 terminal						
Protection grade	IP40						

RESISTANCE VALUES, RESOLUTION, INDEPENDENT LINEARITY, ROTATIONAL LIFE

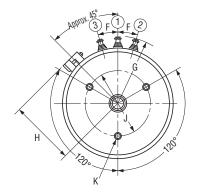
Nominal resistance value (Ω)	F	Resolution (%)	Indep	endent linearity	y (%)	Rotational life (million cycles)			
	J40S	J45S	J50S	J40S	J45S	J50S	J40S	J45S	J50S	
500	0.13	0.12	0.1		±0.1	±0.1	5	10	10	
1 k	0.1	0.1	0.08							
2 k	0.08	0.07	0.06	±0.15						
5 k	0.07	0.08	0.07							
10 k	0.07	0.07	0.05		±0.15	±0.15		1		
20 k		0.05	0.05				1		- 1	
50 k	—	0.04	0.03						I	

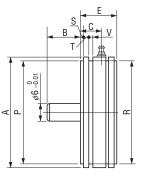
RATED POWER DERATING CURVE



OUTLINE DIMENSIONS

- J40S
- J45S
- J50S





(Unit : mm)

Wiring diagram Green Green

List of outline dimensions

Part number Marks	А	В	С	E	F	G	Η	J	К	Р	R	S	Т	V
J40S	<i>φ</i> 40		13.3	20	16°	R25	25			φ 37 $^{0}_{-0.03}$	φ 37			
J45S	φ 44.45	20	10.5	16.6	14°	R26.8	26.7	<i>φ</i> 30	M 3 (P = 0.5) D = 3.0 minimum	φ 39.68 $^{0}_{-0.025}$	φ 40.6	1.57	2.36	1.86
J50S	φ 50.8				12°	R30	30		2 0.0	φ 47.62 ⁰ _{-0.025}	φ 47.6			