

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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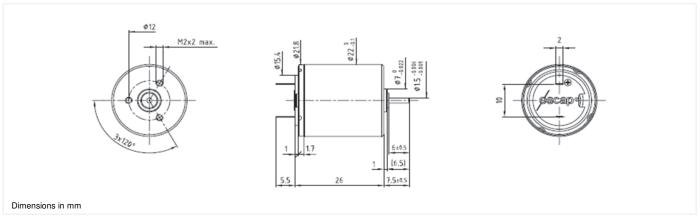
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







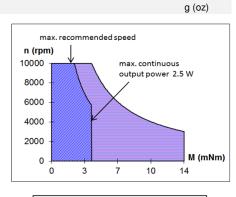
22S28 Precious metal commutation Ø22mm 4.1 mNm



22S28 *	***	.1
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Ele	ctrical Data	****	208E	205E	
1	Nominal Voltage	V	15	24	Volt
2	No-Load Speed	n_0	9,600	7,940	rpm
3	No-Load Current	I_0	6.0	2.8	mA
4	Terminal Resistance	R	35.0	140.0	Ω
5	Output Power	$P_{2max.}$	2.5	2.4	W
6	Stall Torque	mNm	6.3 (0.9)	4.9 (0.7)	mNm (oz-in)
7	Efficiency	h _{max.}	78	76	%
8	Max Continuous Speed	n _{e max.}	10,000	10,000	rpm
9	Max Continuous Torque	M _{e max.}	4.1 (0.56)	3.9 (0.56)	mNm (oz-in)
10	Max Continuous Current	I _{e max.}	0.29	0.15	Α
11	Back-EMF Constant	k_{E}	1.54	2.97	mV/rpm
12	Torque Constant	k_{M}	14.70	28.40	mNm/A
13	Motor Regulation	R/k ²	160.0	170.0	10 ³ /Nms
14	Friction Torque	T_F	0.09 (0.02)	0.08 (0.02)	mNm (oz-in)
15	Rotor Inductance	L	0.92	3.60	mH
16	Mechanical Time Constant	t _m	25.6	25.5	ms
17	Rotor Inertia	J	1.60	1.50	g.cm ²
Ge	neral Data				
18	Thermal Resistance (rotor/body)	R_{th1} / R_{th2}	5/30	5/30 °C/W	
19	Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}		5/480 S	
20	Operating Temperature Range:	motor	-30 °C to 85 °C (-22 °F to 185 °F)		
		rotor	100℃ (212℉) ℃ (℉)		
21	Shaft Load Max.:		With sleeve bearings		
	(5mm from bearing)	-radial	1.5 (5.4	1.5 (5.4) N (oz)	
		-axial	100 (359	100 (359.6) N (oz)	
22	Shaft Play:	-radial	<0.03 (0.0	<0.03 (0.0012) mm (inch)	
		-axial	0.15 (0.00	059)	mm (inch)
23	Weight	g	49 (1.7	3)	g (oz)

Execution Table						
Gearbox	Single Shaft	MR2				
R22	Upon Request	Upon Request				
M22	Upon Request	Upon Request				
K24	Upon Request	Upon Request				
K27	Upon Request	Upon Request				



Continuous working range Temporary working range