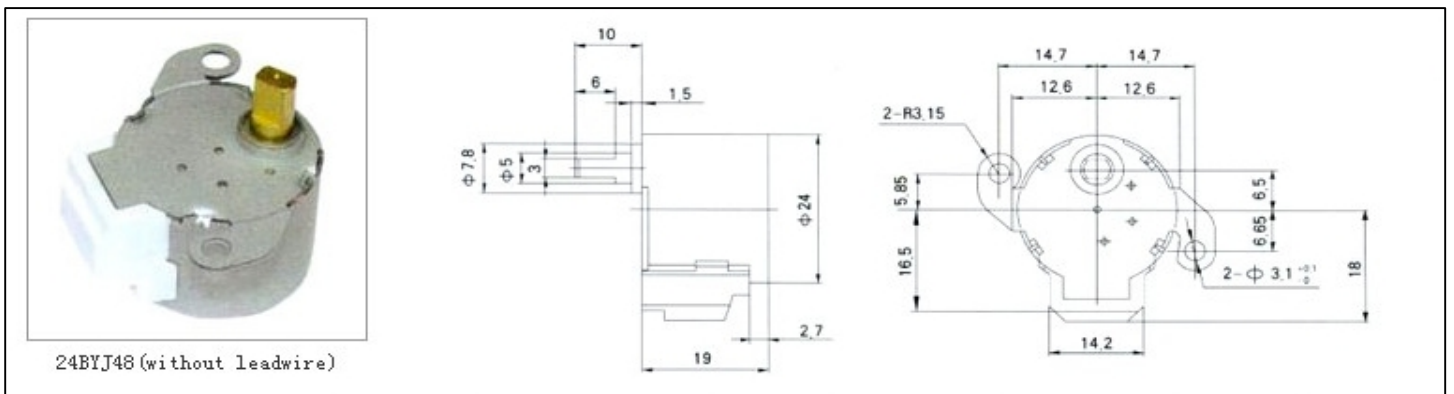


20BYJ46

Model	Rated Voltage (DCV)	Resistance Ω/Phase (at25°C)	Max. Freeload Pull-in Frequency (PPS)	Max. Freeload Pull-out Frequency (PPS)	Pull-in Torque (mN.m)	Operation Frequency (PPS)	Detent Torque (mN.m)	Temperature Rise (K)	Noise (dB)	Step Angle (1-2phase)	Insulation Class
20BYJ46	12	200	≥ 500	≥ 900	≥ 29.4	100	≥ 21.6	≤ 40		7.5° /85	E
20BYJ46	5	60	≥ 500	≥ 900	≥ 29.4	100	≥ 21.6	≤ 40		7.5° /85	E



24BYJ48 (without leadwire)

Model	Rated Voltage (DCV)	Resistance Ω/Phase (at25°C)	Max. Freeload Pull-in Frequency (PPS)	Max. Freeload Pull-out Frequency (PPS)	Pull-in Torque (mN.m)	Operation Frequency (PPS)	Detent Torque (mN.m)	Temperature Rise (K)	Noise (dB)	Step Angle (1-2phase)	Insulation Class
24BYJ48	5	70	≥ 500	≥ 900	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	200	≥ 500	≥ 900	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	250	≥ 500	≥ 900	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	300	≥ 500	≥ 900	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	320	≥ 500	≥ 900	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	380	≥ 500	≥ 800	≥ 29.4	100	≥ 29.4	≤ 40	≤ 35	5.625° /64	E
24BYJ48	12	200	≥ 300	≥ 600	≥ 9.8	100	≥ 7.35	≤ 45	≤ 40	5.625° /16	E

Remarks: the above dimensions and function parameters are just parts of our products. We can do OEM and ODM.