

2-Phase Hybrid Stepping Motor

1.8°

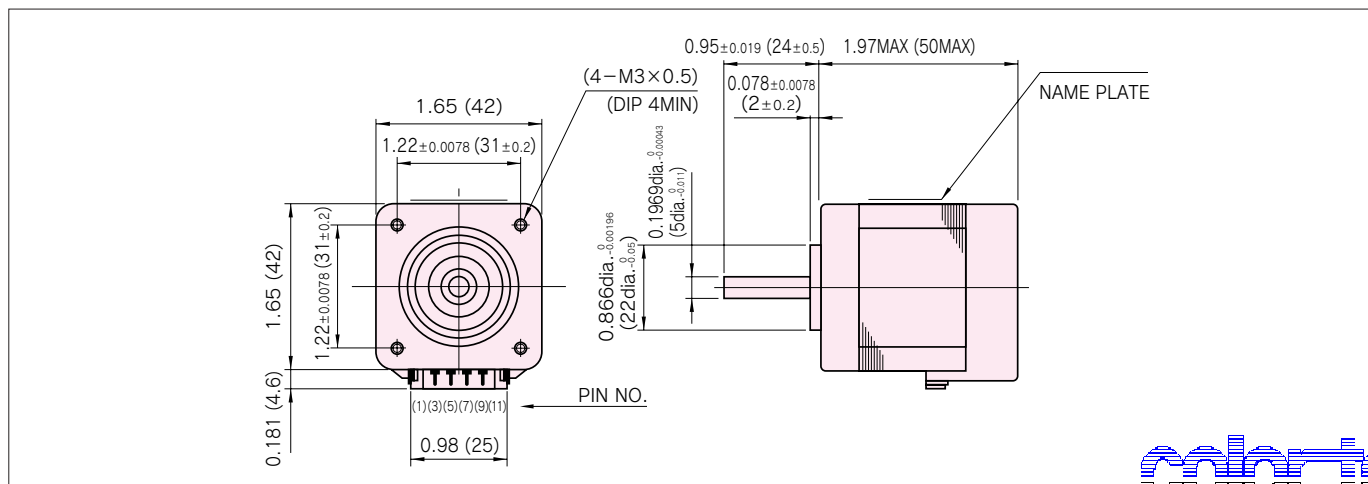
KH42 series 800 type

HIGH TORQUE, LOW VIBRATION AND LOW NOISE

STANDARD SPECIFICATIONS

MODEL	UNIT	KH42KM2		
		-801	-802	-851
DRIVE METHOD	————	UNI-POLAR		BI-POLAR
NUMBER OF PHASES	————	2		2
STEP ANGLE	deg./step	1.8		1.8
VOLTAGE	V	4.6	12	3.84
CURRENT	A/PHASE	1.0	0.4	1.2
WINDING RESISTANCE	Ω/PHASE	4.6	30	3.2
INDUCTANCE	mH/PHASE	35	18.6	4.9
HOLDING TORQUE	kgf · cm	3.2	3.2	4.0 1 Kgf-cm = 9.8 Ncm
	oz · in	44	44	56
DETENT TORQUE	gf · cm	200	200	200
	oz · in	2.8	2.8	2.8
ROTOR INERTIA	g · cm ²	76	76	76
	oz · in ²	0.42	0.42	0.42
WEIGHTS	g	360	360	360
	lb	0.79	0.79	0.79
INSULATION CLASS	————	JIS Class E (120°C 248° F)(UL VALUE : CLASS B-130°C 266° F)		
INSULATION RESISTANCE	————	500VDC 100MΩmin.		
DIELECTRIC STRENGTH	————	500VAC 50HZ 1min.		
OPERATING TEMP. RANGE	°C	0 to 50		
ALLOWABLE TEMP. RISE	deg.	70		

DIMENSIONS unit = inch (mm)



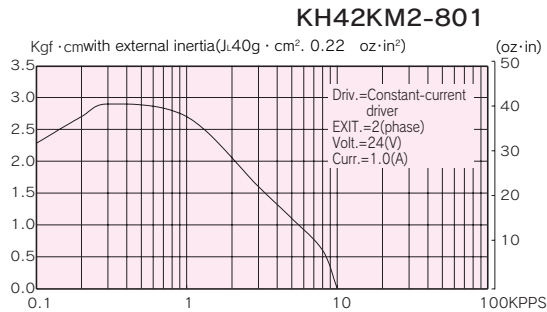


This is our new series 800 Type, which maintains the high torque performance of our conventional 500 Type and lowers vibration and noise .

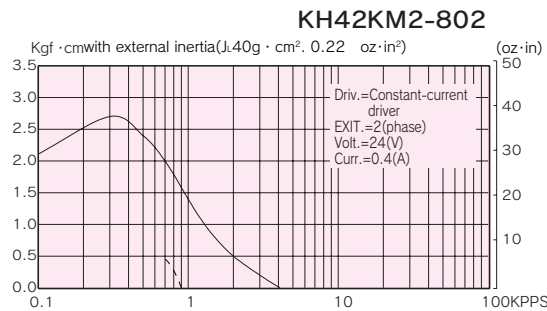
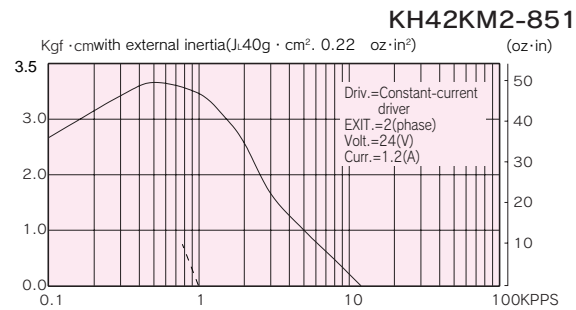
- High efficiency and high torque have been achieved through our intensive research on magnetic circuitry.
- A unique tooth profile has been employed through the development of a new proven theory to achieve low vibration and low noise.

TORQUE CHARACTERISTICS vs. PULSE RATE

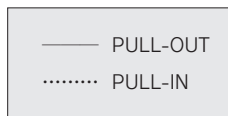
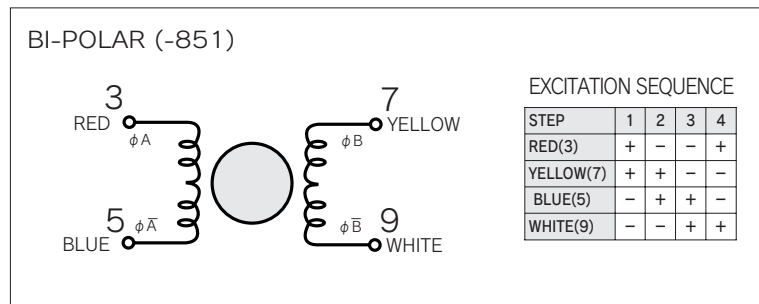
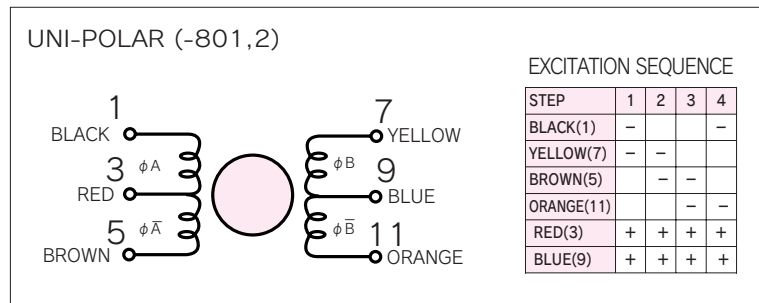
UNI-POLAR



BI-POLAR



CONNECTION DIAGRAMS



CONNECTION CABLE TO MOTOR unit = inch (mm)

