

## DCM8027 and DCM8054 Micro Stepping Chopper Drives

### Delivering optimum performance throughout a greater speed range

Using an advanced bipolar constant-current chopping technique, and a maximum input voltage of 80 VDC, the DCM8027 and DCM8054 can produce more speed and power from the same motor, compared with traditional technologies such as L/R drives.

- Ideal for motor applications requiring low noise, low vibration, high speed and high precision
- Easily integrated with other electronic systems
- Suitable for 4, 6, and 8 lead motors



### Features

- User friendly Chopper Drive
- Inaudible 20 khz chopping frequency
- Input voltage range 20 to 80 VDC\*, current up to 5.5 A rms/phase
- TTL compatible and optically isolated input signals
- 14 selectable microstep resolutions in decimal and binary
- Automatic idle current reduction
- Requires external pulse generator

### Specifications

Part Number	DCM8027	DCM8054
Size	115 x 97 x 31 mm	115 x 97 x 48 mm
Drive Input Voltage Range	20 to 80 VDC	
Maximum Drive Current/Phase	2.8 A rms	5.5 A rms
Step Modes	14 selectable	
Motor Winding Type	Bipolar	
Max. Pulse Input Frequency	500kHz	
Maximum Temperature	70° measured at heat sink	
Chopper Frequency	20kHz	

\*For Europe the maximum input voltage must be limited to 70 VDC (CE Regulations)

### Dimensional Drawing

#### Power and Motor Connector

PIN #	NAME	DESCRIPTION
1	GND	Power Ground (Negative)
2	V+	Power Supply Input +20 to 80 VDC
3	A+	Motor Phase A+
4	A-	Motor Phase A-
5	B+	Motor Phase B+
6	B-	Motor Phase B-

#### Communication Connector TABLE "B"

PIN #	NAME	DESCRIPTION
1	PUL+ (+5V)	Pulse Signal
2	PUL- (PUL)	Pulse Signal
3	DIR+ (+5V)	Direction Signal
4	DIR- (DIR)	Direction Signal
5	ENA+ (+5V)	Enable Signal
6	ENA- (ENA)	Enable Signal

