

FTMST 24-01 SPECIFICATION

GENERAL DESCRIPTION

- FTMST24-01 is a motor control board for two phase Stepper Motors rated up to 24V / 1.2 Amps

OVERVIEW

- Controls Two Phase Stepper Motor
- Full Step to 1/32 Microstepping

GENERAL FEATURES

- Pulse and Direction control input
- Status LED's indicate Power, Run and Fault conditions
- Optically isolated control inputs

OPERATIONAL SPECIFICATION

PARAMETER NAME	MIN	NOM	MAX	UNIT
Power Supply	12	-	24	V
Pulse Frequency @ 1/32 microstep	-	6	-	kHz
Speed Range(Depends on motor)	0.5	200	-	rpm
Continuous Output Current (At 25°C)	-	-	1.2	A
Operating Temperature Range	0	-	70	°C
Storage Temperature Range	-25	-	85	°C
Control Input Voltage	5	-	10	V

DIRECTION

- By using Direction input (DIR +, EXT GND) the direction of the motor can be changed.

STEP INPUT

- According to the step input (STEP +, EXT GND), speed of the motor can be varied from MIN to MAX.

ENABLE/DISABLE

- By giving +5V to Disable Input (DIS, EXT GND) we can DISABLE the motor.

LED's

- Fault LED - It is ON, Colour RED
- Run LED - It is ON with respect to the frequency, Colour GREEN
- Power LED - It is ON when drive is powered, Colour GREEN

MICROSTEPPING / DECAY SETTINGS

S1	S2	S3	S4	STEP MODE
ON	ON	ON	X	Full Step
ON	ON	OFF	X	1/2 Step
ON	OFF	ON	X	1/4 Step
ON	OFF	OFF	X	1/8 Step
OFF	ON	ON	X	1/16 Step
OFF	ON	OFF	X	1/32 Step

X – Don't care

FTMST24-01 CONNECTION DIAGRAM

Figure shows power, motor and peripheral connections.

