

## DM556/ DM556EU/ EM556S

Comparison



Leadshine has a wide product range with over 10 million drivers in the market in different price ranges and performances. Below is a comparison of stepper motor drivers for operating voltages up to 50 volts.

## **Comparison of Digital Drivers**

DM556/ DM556EU/ EM556S







DM556EU

DM556

EM556S

	DM556EU		DM556		EM556S		]
Auto-tuning	✓		✓		✓		
Anti-resonance	✓		✓		✓		
Extra-low motor noise	✓		✓		✓		
Idle-current reduction	✓		✓		✓		
Protection for							
over-voltage/ over-current	•						
Optical isolated inputs	✓		✓		$\checkmark$		
Input PUL/ DIR	✓		$\checkmark$		$\checkmark$		
CW/ CCW mode	X		✓		✓		
RS232 programming	X		✓		✓		
Fault & Brake Output	X		X		✓		
Self-test	X		X		✓ <b>✓</b>		
Current setting	X		~		<ul> <li>✓</li> </ul>		
via software (steps 0.1 A)							
Current setting	8		8		8		
via DIP switches (steps)	8		0		0		
Steps/ revolution	400 - 25.600		400 - 25 600		200 - 25.600		
via DIP switches	100 20,000		100 20,000		200 20,000		
Selectable micro-step	16		16		16		
resolutions via DIP switches							
Steps/ revolution via	N		200 - 102,400		200 - 51,200		
Voltago toloranco					33-50V(TTLV		1
of inputs (High Level)	3.3 - 5.0 V (TTL)		3.3 - 5.0 V (TTL)		3.3 - 5.0 V (TTL)/ 12 - 24 V/		
Dimensions [mm]	118 x 75 5 x 34		118 x 75 5 x 34		118 x 75 5 x 34		
	WANJIE: WJ2EDGK, 5.0 mm pitch, 2-		ANYTEK: TJ, 3.81 mm pitch, 2-pin		ANYTEK: TJ, 3.81 mm pitch, 3-pin		-
Connectors:	WANJIE: WJ2EDGK, 5.0 mm pitch, 4-pin WANJIE: WJ2EDGK, 5.0 mm pitch, 6-pin		ANYTEK: TJ, 3.81 mm pitch, 4-pin ANYTEK: TJ, 3.81 mm pitch, 6-pin		ANYTEK: TJ, 5.0 mm pitch, 2-pin		
Weight	300 g		280 a		250 g		
	Min	Max	Min	Max	Min	Max	Units
Output current via DIPs	1.8	5.6	0.5	5.6	1.8	5.6	A
Output current via SW			0.5	5.6	0.5	5.6	Α
Supply voltage	20	50	20	50	20	50	VDC
Logical signal current	7	16	7	16	7	16	mA
Pulse input frequency	0	200	0	200	0	200	kHz
Minimal pulse width	2.5		2.5		2.5		μs
Minimal direction timing	5.0		5.0		5.0		μs
Insulation resistance	500		500		500		MΩ