

General Table

Feature	Units	Specification
PWM switching frequency	kHz	22 ± 5% default on the motor
Switching method		Advanced Unipolar PWM
Current loop bandwidth	kHz	< 2.5
Current loop sampling rate	kHz	Up to 16; default 11
Velocity loop bandwidth	Hz	< 350
Velocity loop sampling rate	kHz	Up to 8; default 5.5
Position loop bandwidth	Hz	< 80
Position loop sampling rate	kHz	Up to 4; default 2.75
Maximum heat sink temperature	°C (°F)	85 °C - 88 °C (185 °F - 190 °F)
Ambient operating temperature	°C (°F)	0 °C - 40 °C (32 °F - 104 °F)
Storage temperature	°C (°F)	-20 °C - 85 °C (-4 °F - +185 °F)
Maximum humidity	%	90% non-condensing
Maximum operating altitude	m (ft)	Up to 10,000 (30,000)
Protection level		

Tweeter Full Digital Servo Drive

Feature	Units	3/60	2.5/100
Minimum supply voltage	VDC	7.5	12
Nominal supply voltage	VDC	50	85
Maximum supply voltage	VDC	59	95
Maximum continuous power output	W	160	200
Efficiency at rated power (at normal conditions)	%	> 99%	
Maximum output voltage		> 95% of DC bus voltage at f=22 kHz	
Auxiliary power supply	VDC	11 - 95 VDC (up to 2.5 VA inc. 5 V / 200 mA for encoder)	
Amplitude sinusoidal/DC continuous current	A	3.3	2.5
Sinusoidal continuous RMS continuous current	A	2.3	1.8
Peak current limit	A	2 x I _c	
Weight	g (oz)	27 g (0.95 oz)	
Dimensions	mm (in)	51 x 12.5 x 42 (2" x 0.49" x 1.65")	
Digital in/Digital out/Analog in		6/2/1	
Mounting method		PCB mounted or soldered pins	

