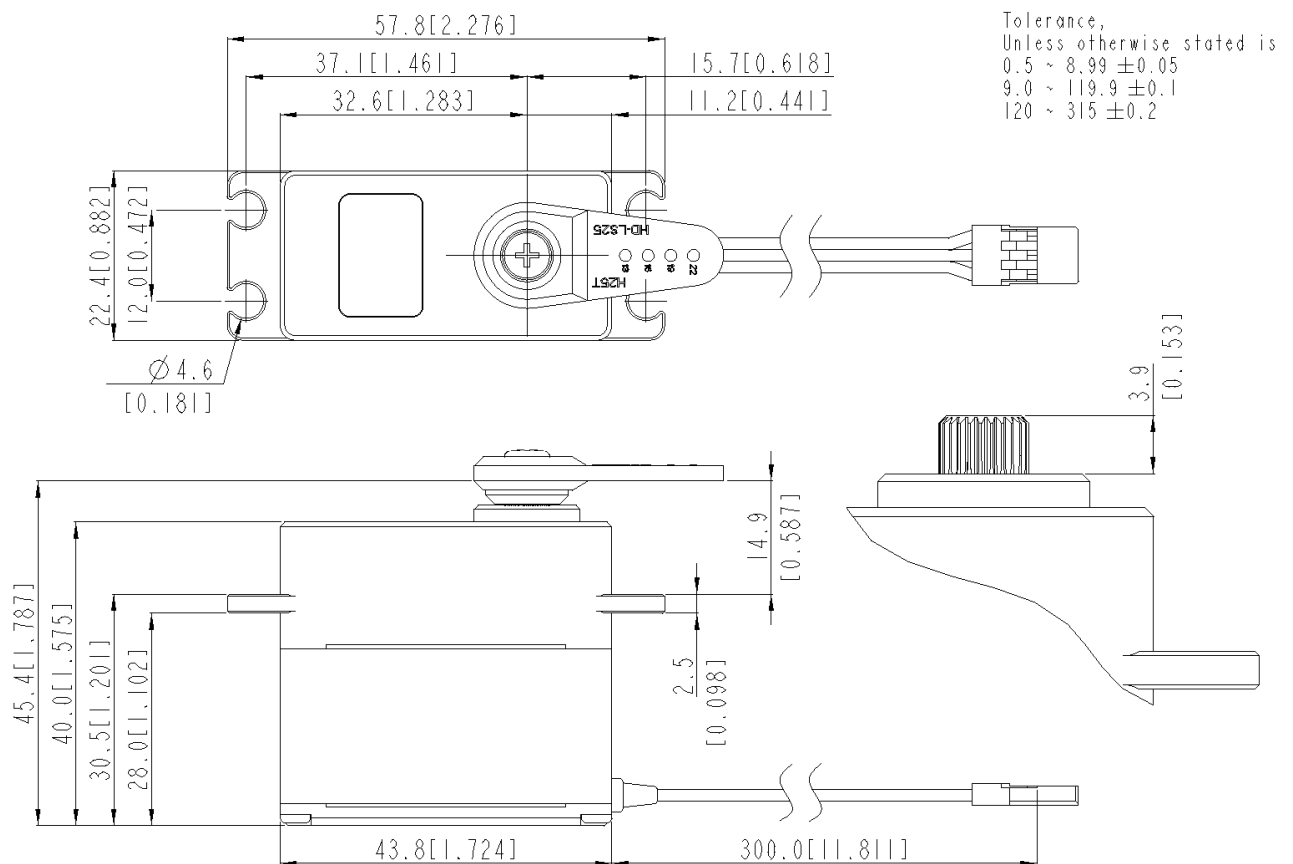


MD981TW General Specification.



FULL METAL MONSTER TORQUE DIGITAL SERVO

Control system	PWM			-
Position sensor type	Contactless Magnetic Encoder			-
Operating voltage range	4.8 ~ 7.4 V			-
Motor type	Coreless			-
Voltage	4.8V	6.0V	7.4V	At 25°C, 45% ($\pm 10\%$) measurement environment
No load speed	0.28sec/60°	0.21sec/60°	0.17sec/60°	
Stall torque	26.0 kgf-cm(361.07oz-in)	36.0 kgf-cm(499.95oz-in)	44.0 kgf-cm(611.05oz-in)	
Standing current	30mA	30mA	30mA	
No load running current	300mA	390mA	500mA	
Stall current	4,800mA	4,800mA	6,200mA	
Dead band width	1usec	1usec	1usec	
Operating travel	$\pm 40^\circ$ /One side pulse traveing 400usec			-
Operating temperature range	$-20^\circ\text{C} \sim +60^\circ\text{C}$ ($-4^\circ\text{F} \sim +140^\circ\text{F}$)			-
Vibrations at no load	-			-
Storage temperature range	$-30^\circ\text{C} \sim +80^\circ\text{C}$ ($-31^\circ\text{F} \sim +176^\circ\text{F}$)			-
Connector wire length	300mm (11.811inch)			
Connector wire gauge	20AWG			
Dimensions	43.8 mm x 22.4 mm x 40.0 mm (1.724 inch x 0.882 inch x 1.575 inch)			Refer to the tolerance information
Weight	95.1 g(3.35oz)			Excluding the weight of Horn
Ball bearing	2 Ball Bearing			-
Case material	Aluminum Alloy			-
Gear material	1 Metal-plastic & 3 Titanium alloy			-
Gear train backlash	Max 0.5°			-
Horn gear spline	25T($\varnothing 6$)			-
IP rate	-			-
Servo Amplifier type	32bit programmable Digital			-
Features	-			-
Applications	-			-



1:1 scale (unit : mm)



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