

4 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

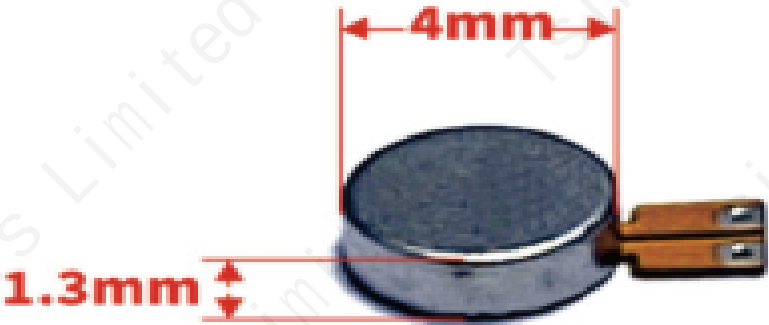


KEY SPECIFICATIONS

Diameter	4.0 mm	Thickness	1.3 mm
Rated Voltage	0.6 Vrms AC	Operating Voltage	0.1-0.9 Vrms AC
Rated Current (Max.)	27 mA	Rated Frequency	235±30 Hz
Vibration Direction	Z axis	Vibration Force	0.05 Grms min.

MECHANICAL DRAWING

Dimensions in mm



8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

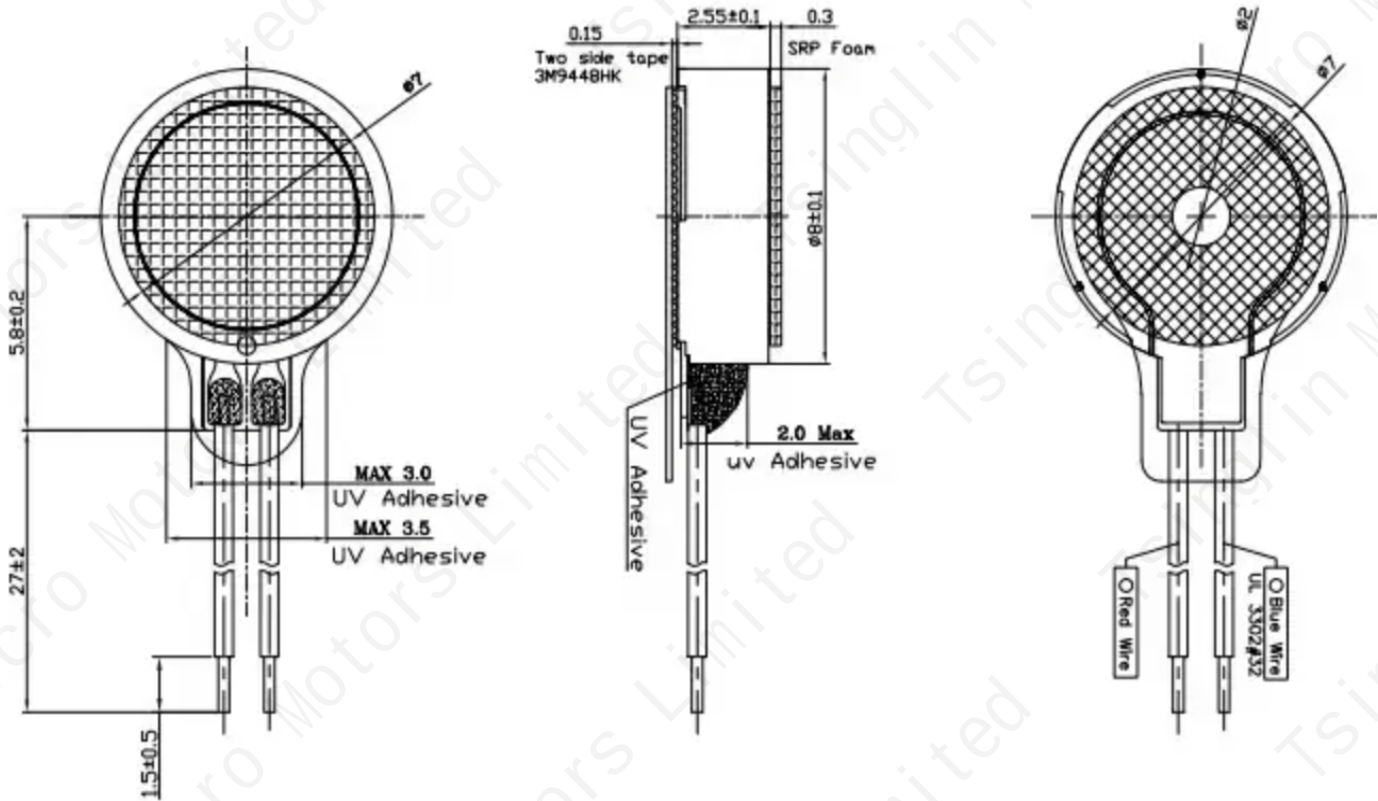


KEY SPECIFICATIONS

Diameter	8.0 mm	Thickness	2.5 mm
Rated Voltage	1.2 Vrms AC	Operating Voltage	1.2±0.05 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	240 Hz
Vibration Direction	Z axis	Vibration Force	0.7 Grms min.

MECHANICAL DRAWING

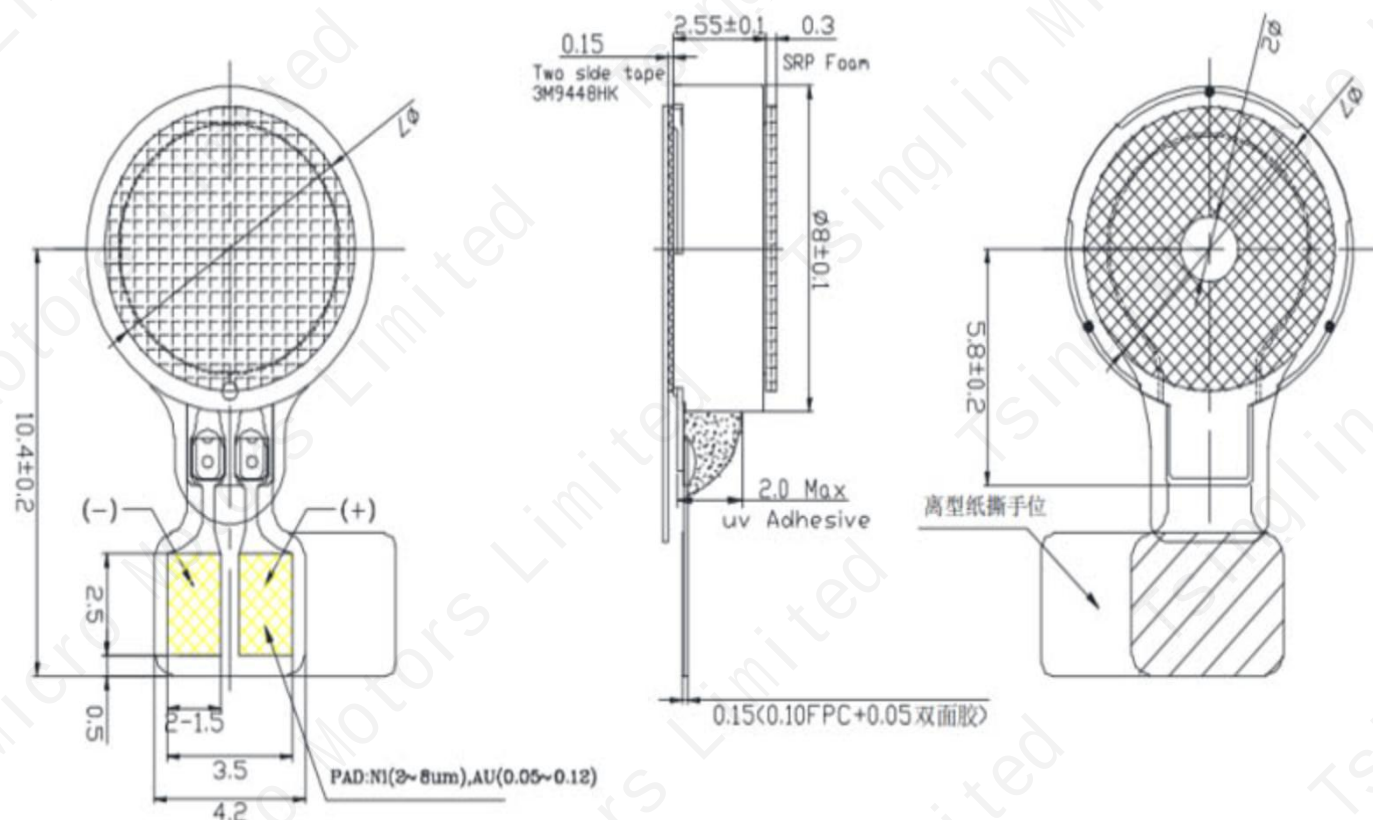
Dimensions in mm



Compact Z-axis haptic vibration actuator

Diameter	8.0 mm	Thickness	2.5 mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1-1.9 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	225-255 Hz
Vibration Direction	Z axis	Vibration Force	0.1 Grms min.

Dimensions in mm



8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

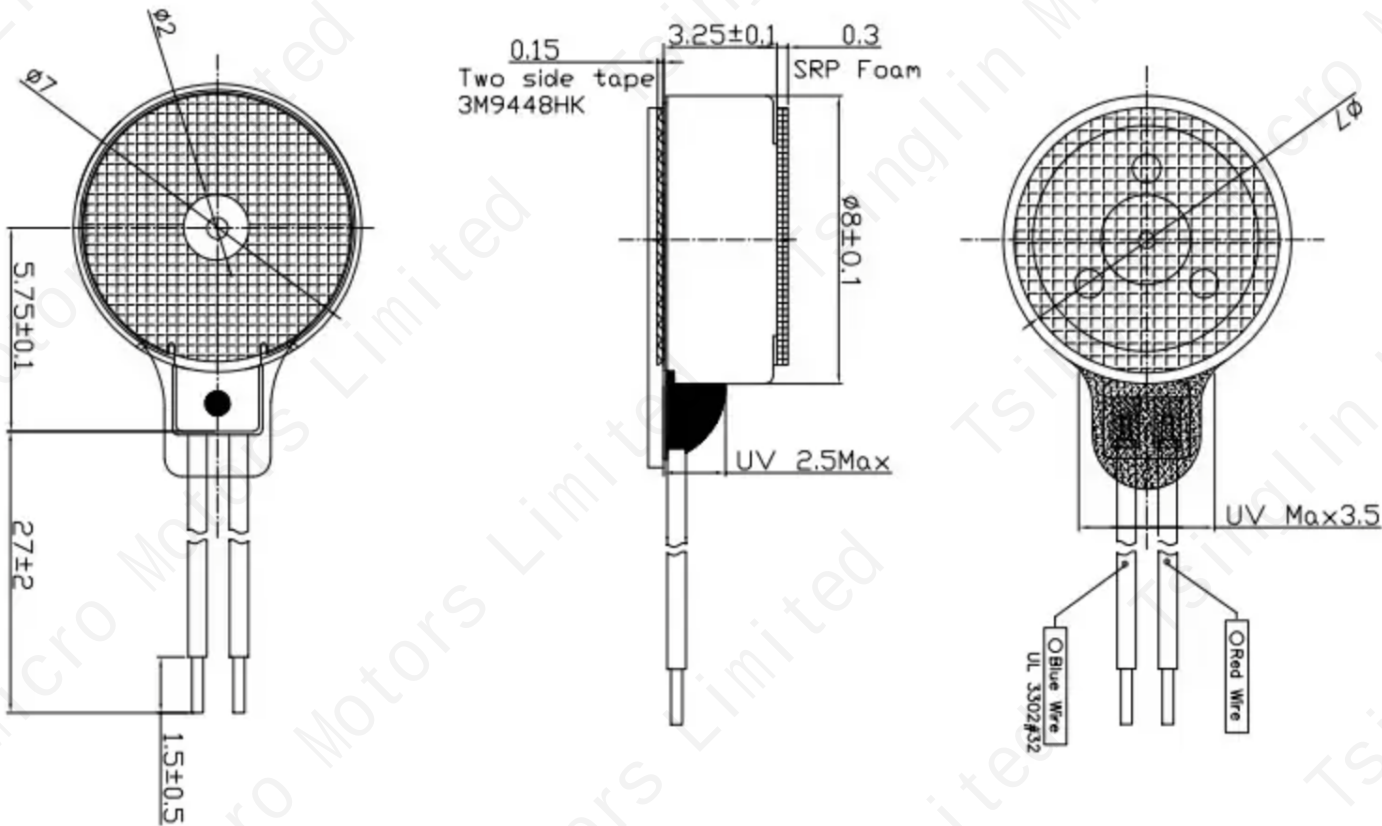


KEY SPECIFICATIONS

Diameter	8.0 mm	Thickness	3.2 mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.9 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	235 ± 10 Hz
Vibration Direction	Z axis	Vibration Force	1.0 Grms min.

MECHANICAL DRAWING

Dimensions in mm



8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

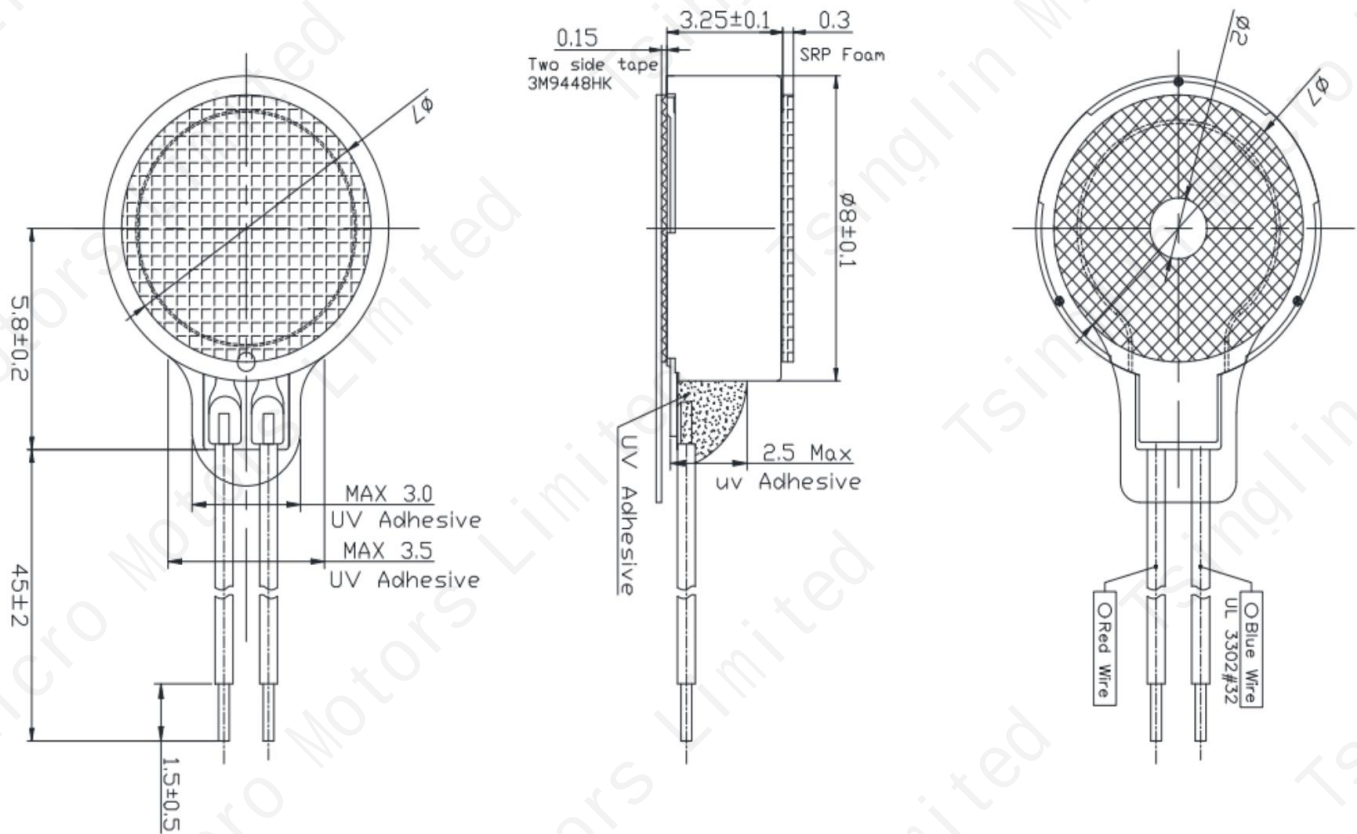


KEY SPECIFICATIONS

Diameter	8.0 mm	Thickness	3.2 mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.9 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	235 ± 10 Hz
Vibration Direction	Z axis	Vibration Force	1.0 Grms min.

MECHANICAL DRAWING

Dimensions in mm



8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

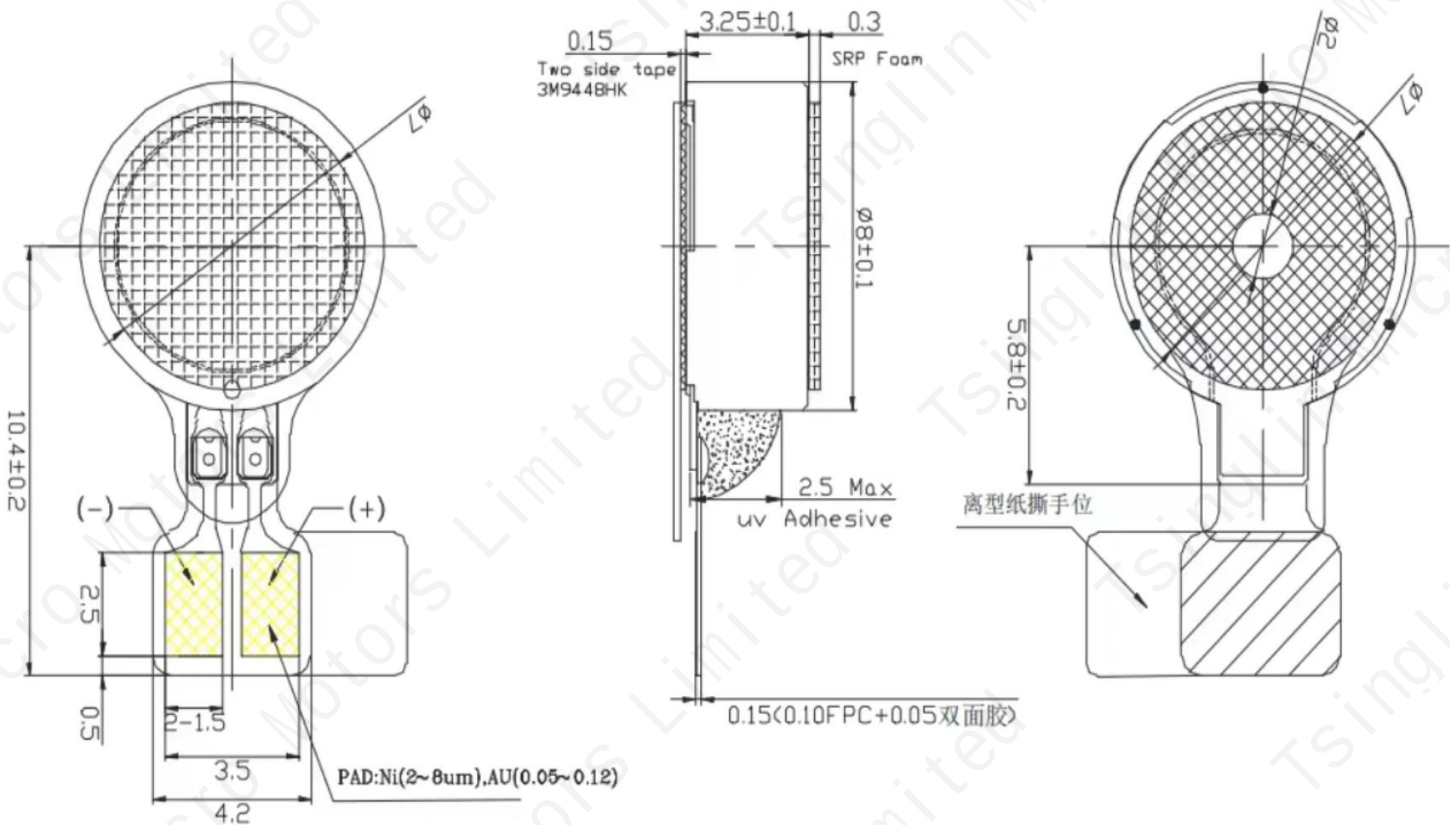


KEY SPECIFICATIONS

Diameter	8.0 mm	Thickness	3.2 mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.9 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	235 ± 10 Hz
Vibration Direction	Z axis	Vibration Force	1.0 Grms min.

MECHANICAL DRAWING

Dimensions in mm



8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

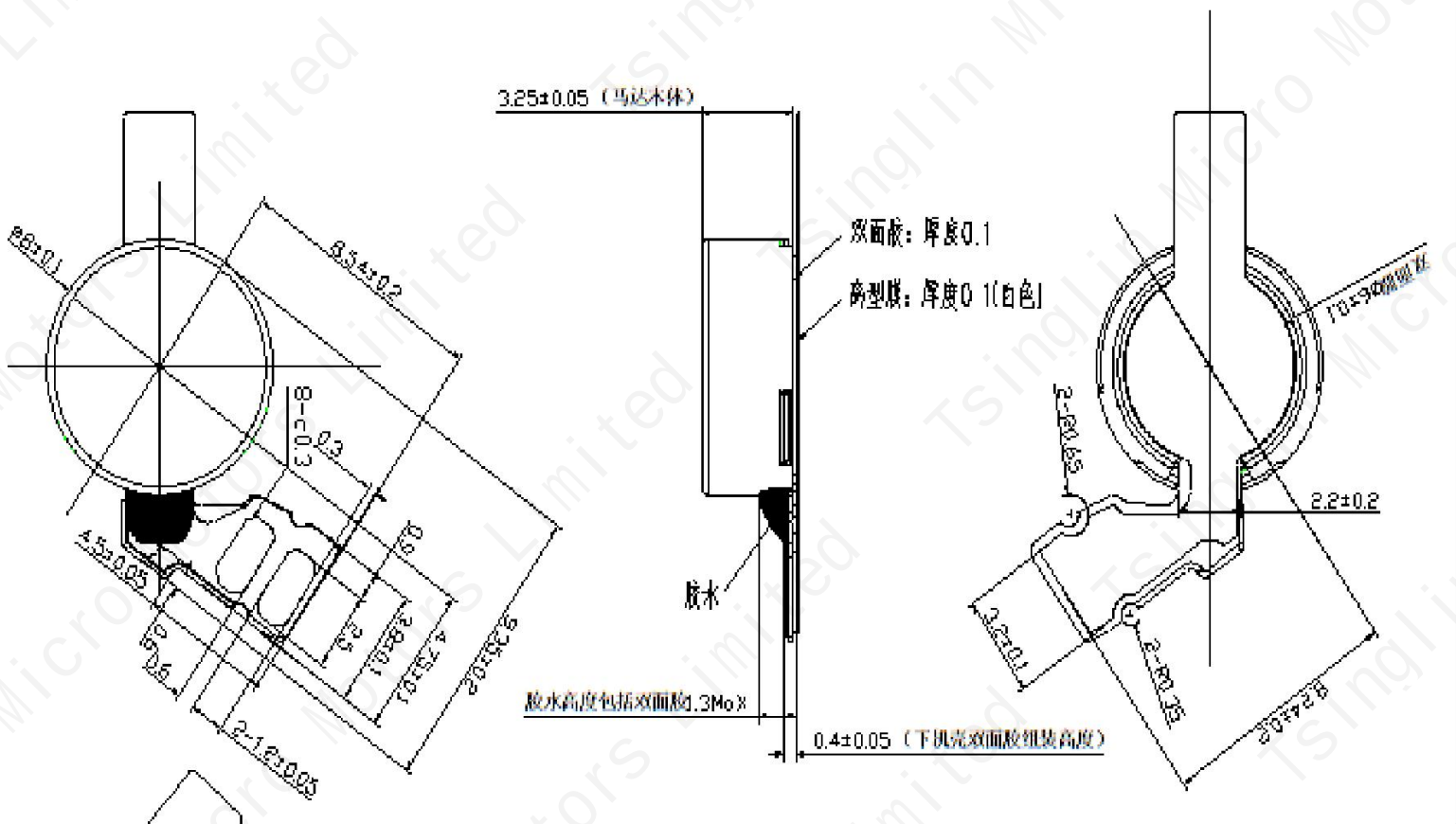


KEY SPECIFICATIONS

Diameter	8.0 mm	Thickness	3.2 mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.9 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	235 ± 8 Hz
Vibration Direction	Z axis	Vibration Force	1.2 Grms min.

MECHANICAL DRAWING

Dimensions in mm



10 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

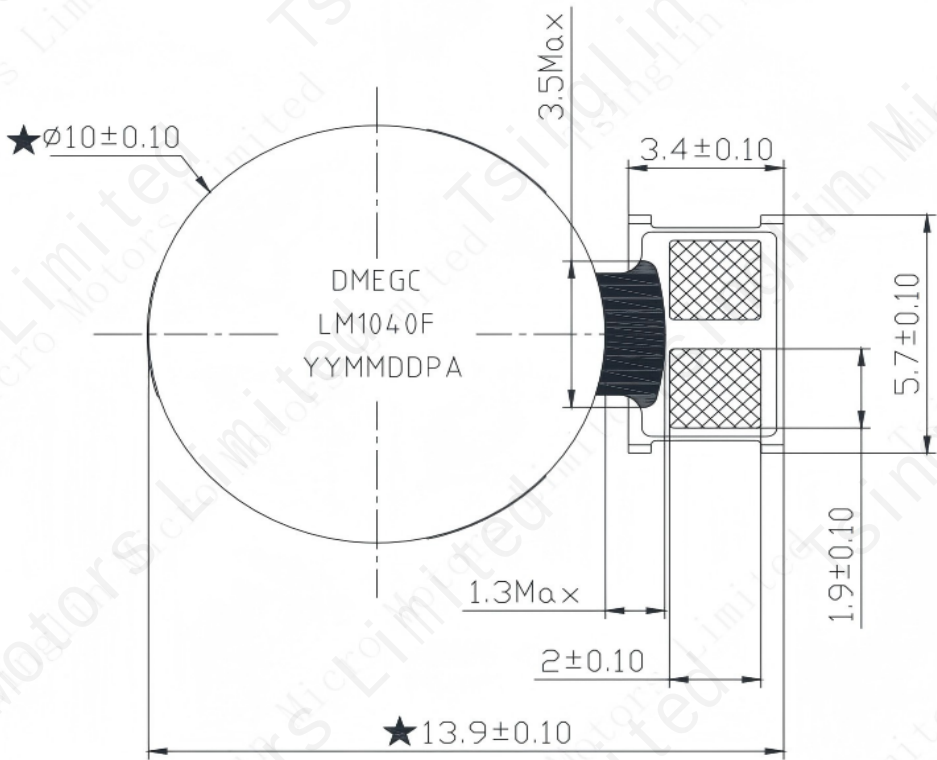


KEY SPECIFICATIONS

Diameter	10 mm	Thickness	3mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.8 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	215±10 Hz
Vibration Direction	Z axis	Vibration Force	1.6 Grms min.

MECHANICAL DRAWING

Dimensions in mm



10 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

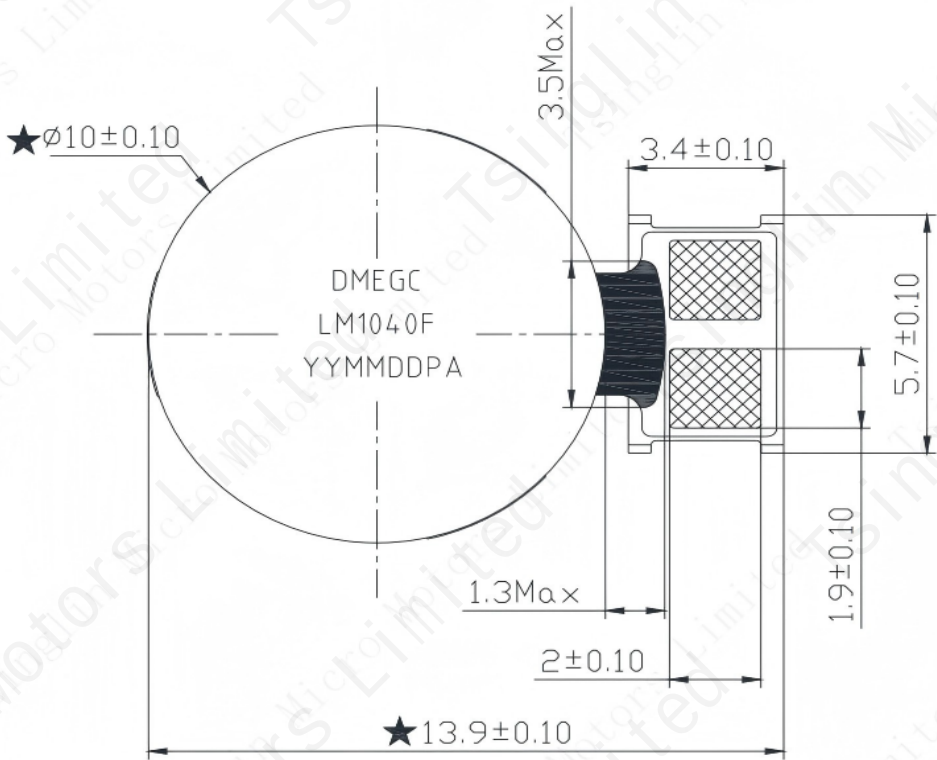


KEY SPECIFICATIONS

Diameter	10 mm	Thickness	3mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	0.1 - 1.8 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	215±10 Hz
Vibration Direction	X axis	Vibration Force	1.6 Grms min.

MECHANICAL DRAWING

Dimensions in mm



10 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

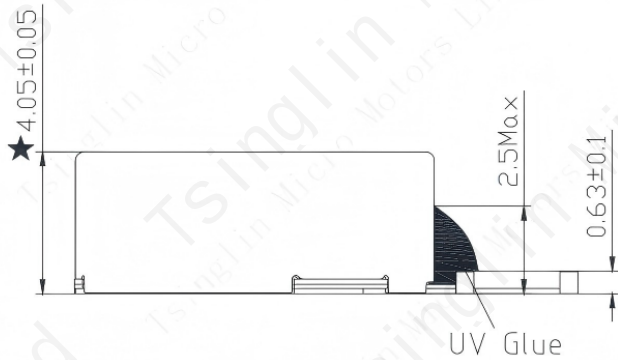
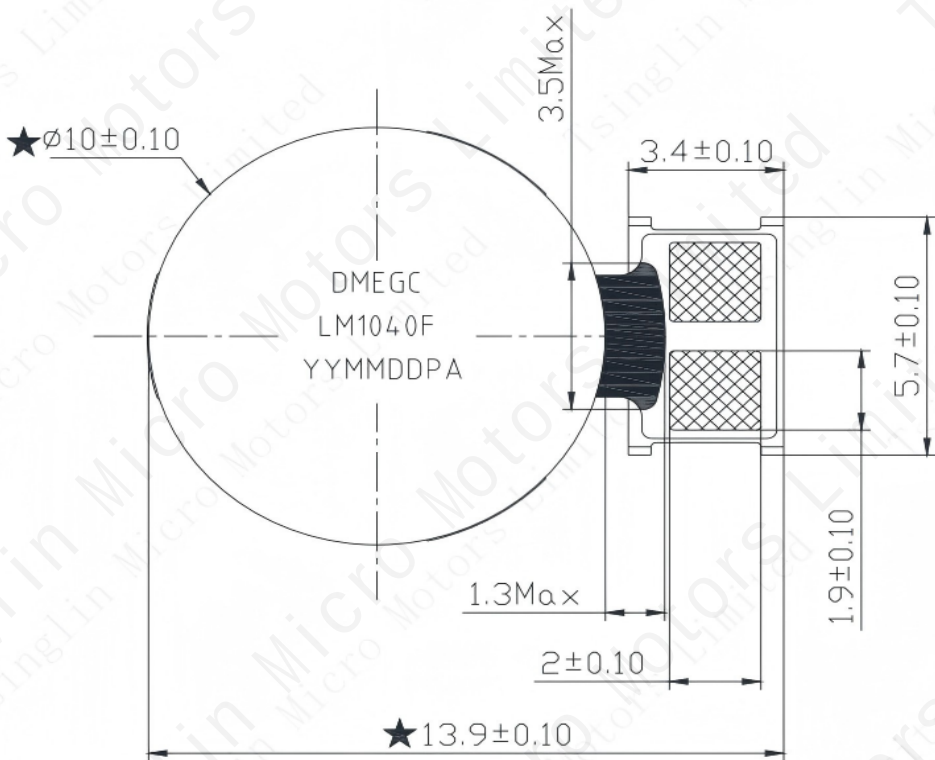


KEY SPECIFICATIONS

Diameter	10 mm	Thickness	4mm
Rated Voltage	2.5 Vrms AC	Operating Voltage	0.1 - 2.55 Vrms AC
Rated Current (Max.)	170 mA	Rated Frequency	170 Hz
Vibration Direction	Z axis	Vibration Force	1.7 Grms min.

MECHANICAL DRAWING

Dimensions in mm



20 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

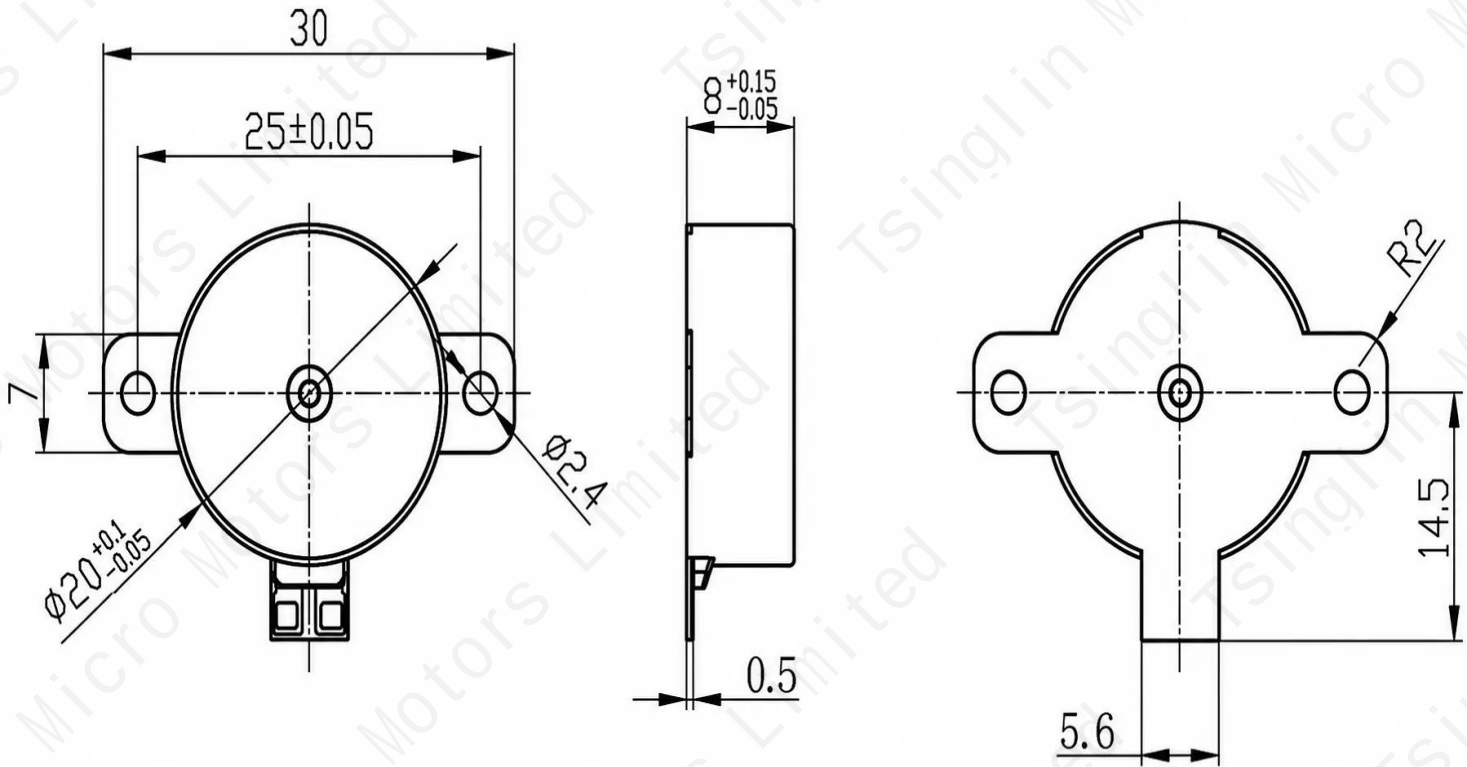


KEY SPECIFICATIONS

Diameter	20 mm	Thickness	8mm
Rated Voltage	1.8±0.05 Vrms AC	Operating Voltage	1.8±0.05 Vrms AC
Rated Current (Max.)	150 mA	Rated Frequency	175±10 Hz
Vibration Direction	Z axis	Vibration Force	6.0±1.0 Grms

MECHANICAL DRAWING

Dimensions in mm



20 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

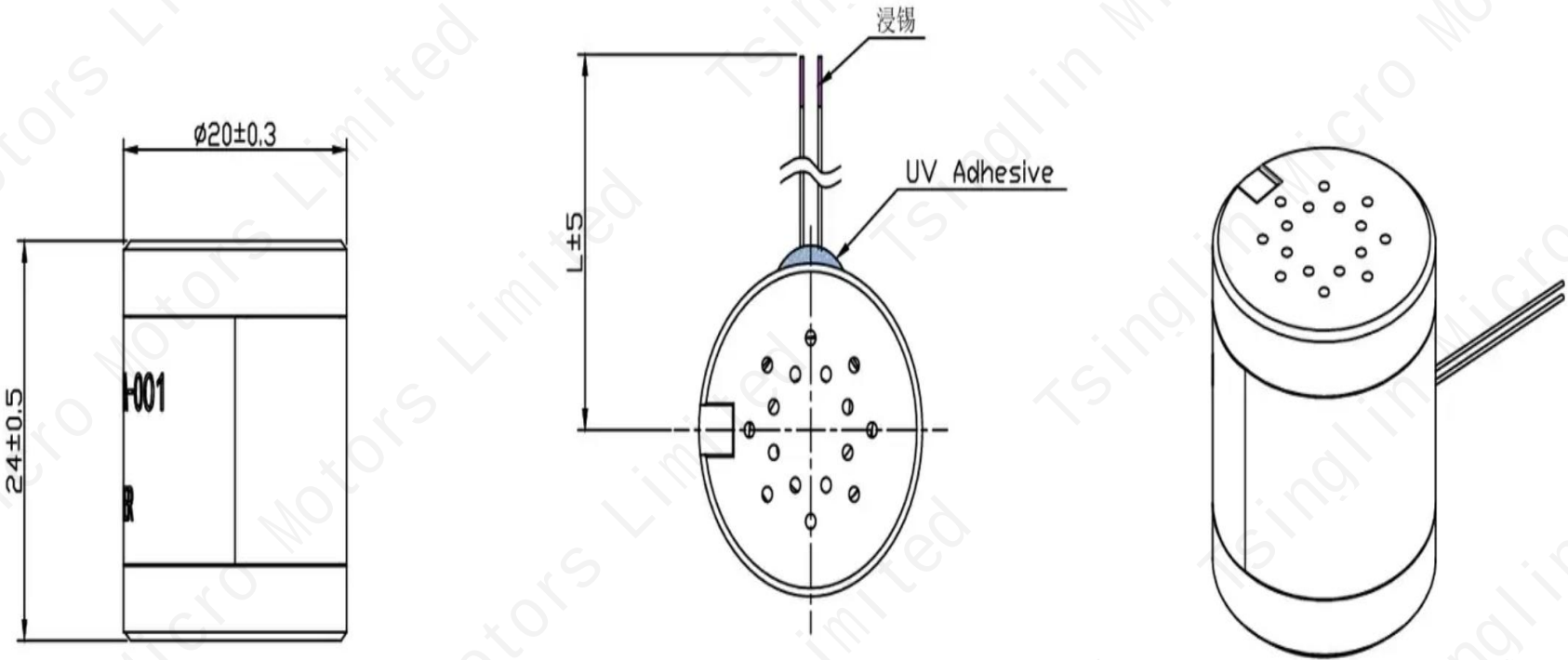


KEY SPECIFICATIONS

Diameter	20 mm	Thickness	24mm
Rated Voltage	1.2 Vrms AC	Operating Voltage	0.1-1.2 Vrms AC
Rated Current (Max.)	200 mA	Rated Frequency	65±10 Hz
Vibration Direction	Z axis	Vibration Force	2.5±0.5 Grms

MECHANICAL DRAWING

Dimensions in mm



22 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

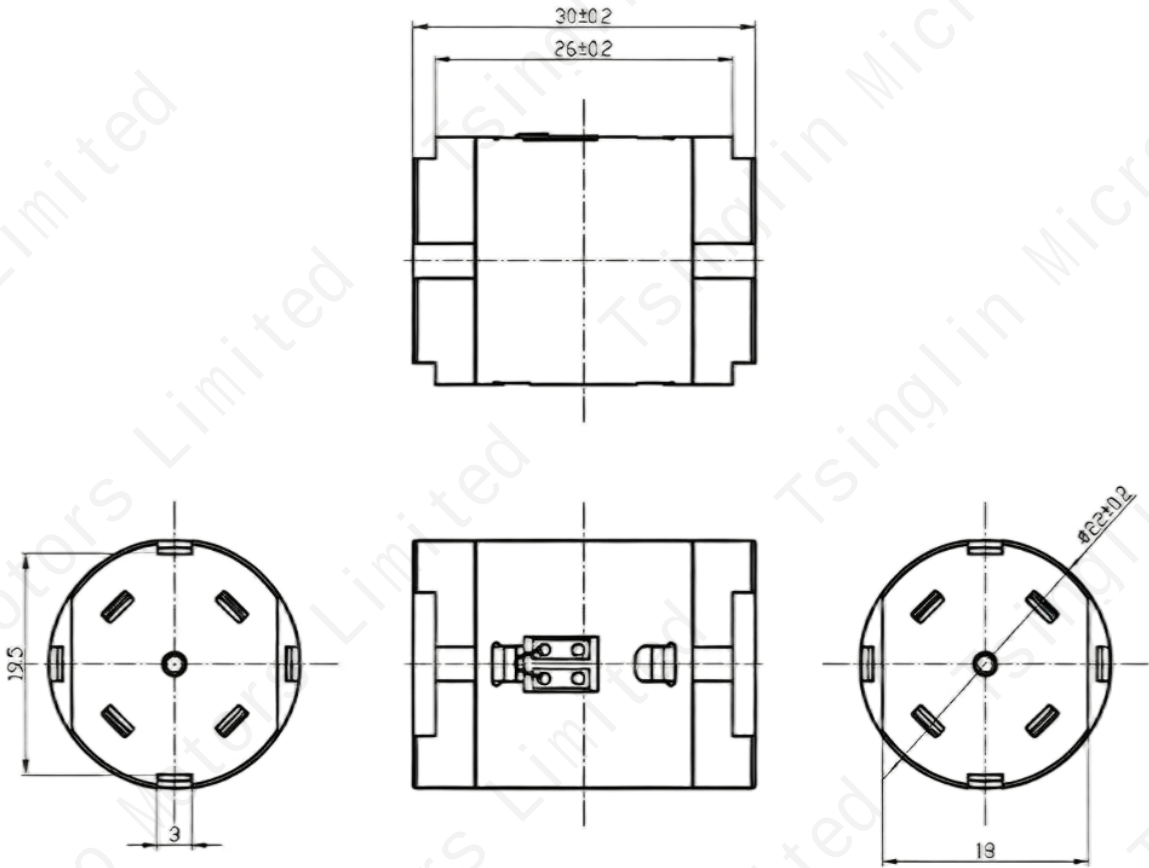


KEY SPECIFICATIONS

Diameter	22 mm	Thickness	30mm
Rated Voltage	2.0 Vrms AC	Operating Voltage	0.1-2.5Vrms AC
Rated Current (Max.)	100 mA	Rated Frequency	70±5 Hz
Vibration Direction	X axis	Vibration Force	2.5±0.5 Grms

MECHANICAL DRAWING

Dimensions in mm



25 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

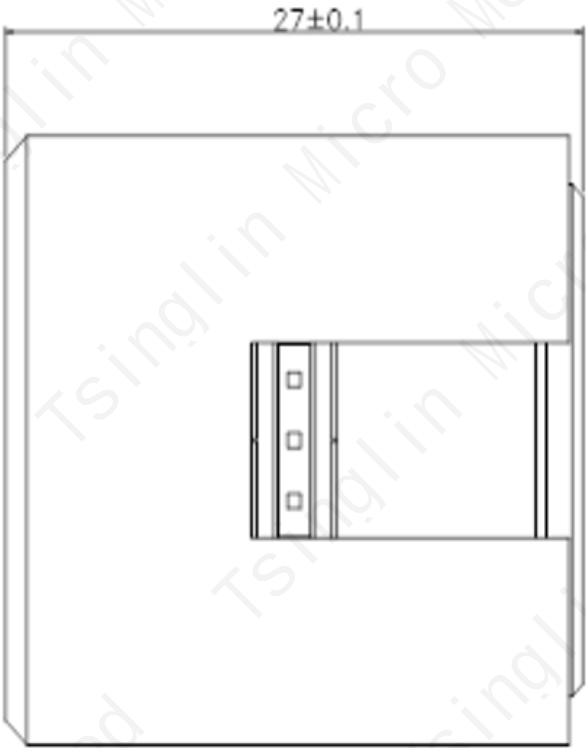
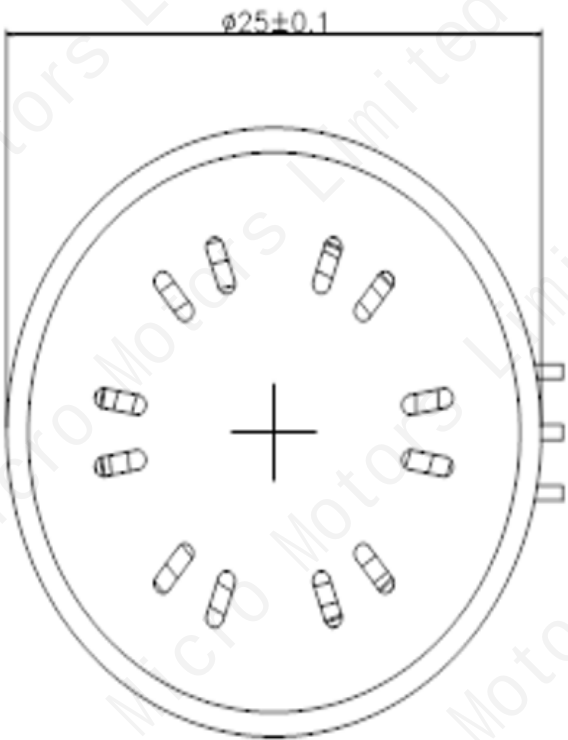


KEY SPECIFICATIONS

Diameter	25 mm	Thickness	27mm
Rated Voltage	1.2 Vrms AC	Operating Voltage	1.2 Vrms AC
Rated Current (Max.)	260 mA	Rated Frequency	75±8 Hz
Vibration Direction	Z axis	Vibration Force	1.8 Grms

MECHANICAL DRAWING

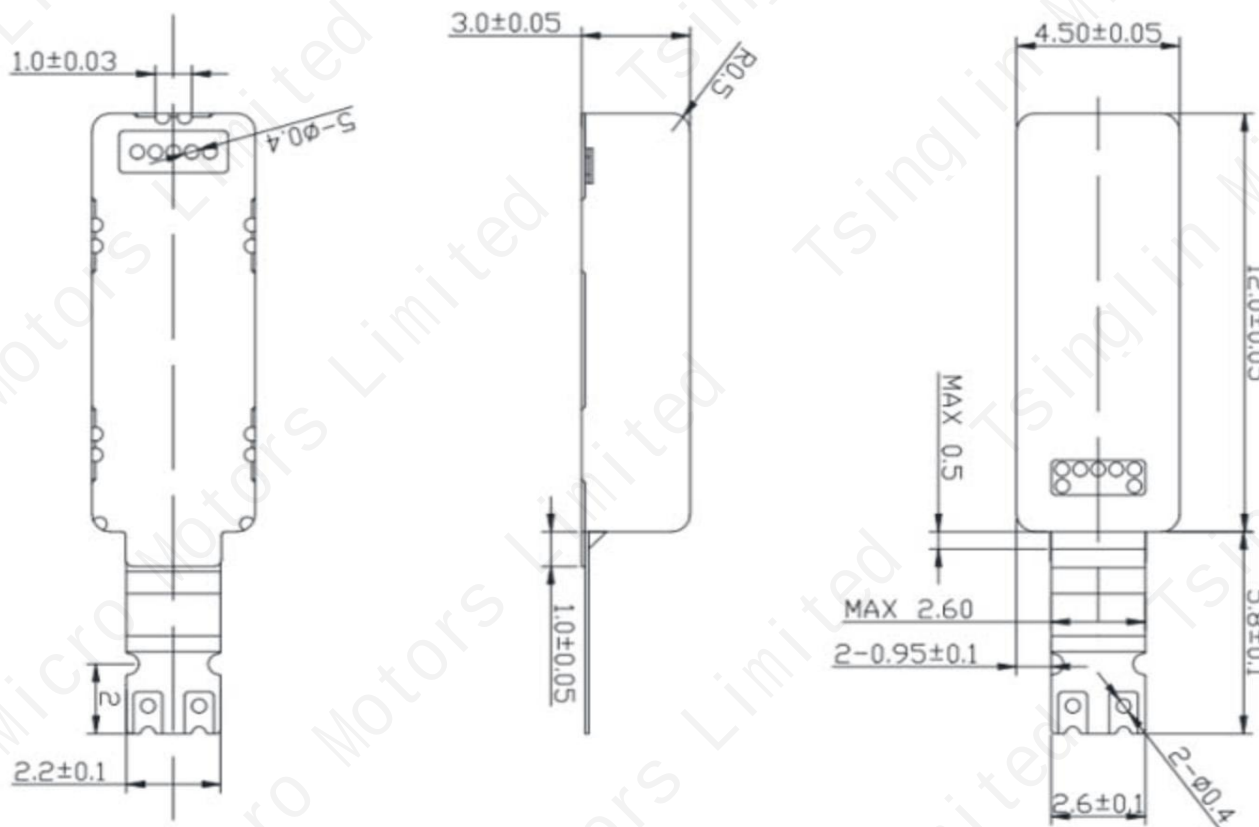
Dimensions in mm



Compact Z-axis haptic vibration actuator

Length*Width	4.5*12 mm	Thickness	3.0mm
Rated Voltage	1.8 Vrms AC	Operating Voltage	1.8 Vrms AC
Rated Current (Max.)	100 mA	Rated Frequency	235 Hz
Vibration Direction	X axis	Vibration Force	0.3Grms Min.

Dimensions in mm



6*12*2.8 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

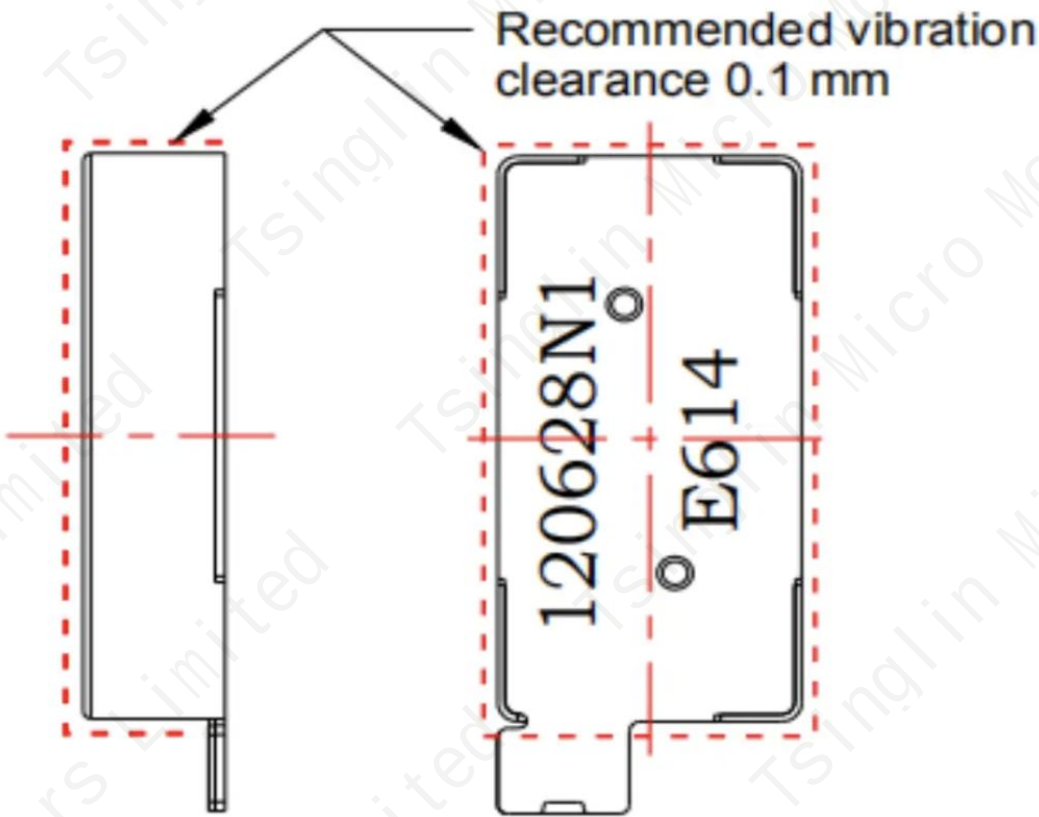
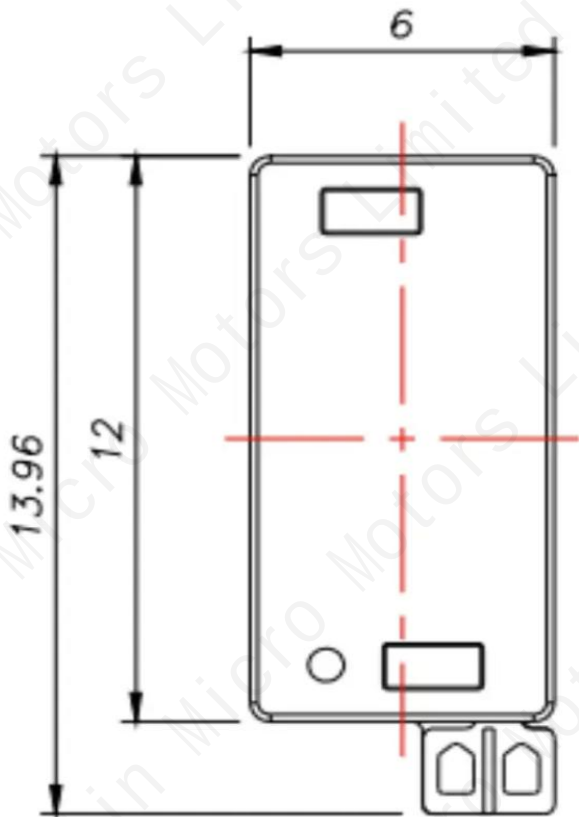


KEY SPECIFICATIONS

Length*Width	6*12 mm	Thickness	2.8mm
Rated Voltage	2.0Vrms AC	Operating Voltage	2.0 Vrms AC
Rated Current (Max.)	135 mA	Rated Frequency	235 Hz
Vibration Direction	X axis	Vibration Force	0.65Grms Min.

MECHANICAL DRAWING

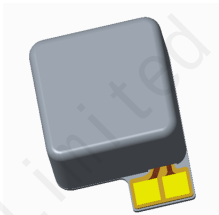
Dimensions in mm



8.2*8.2*4.3 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

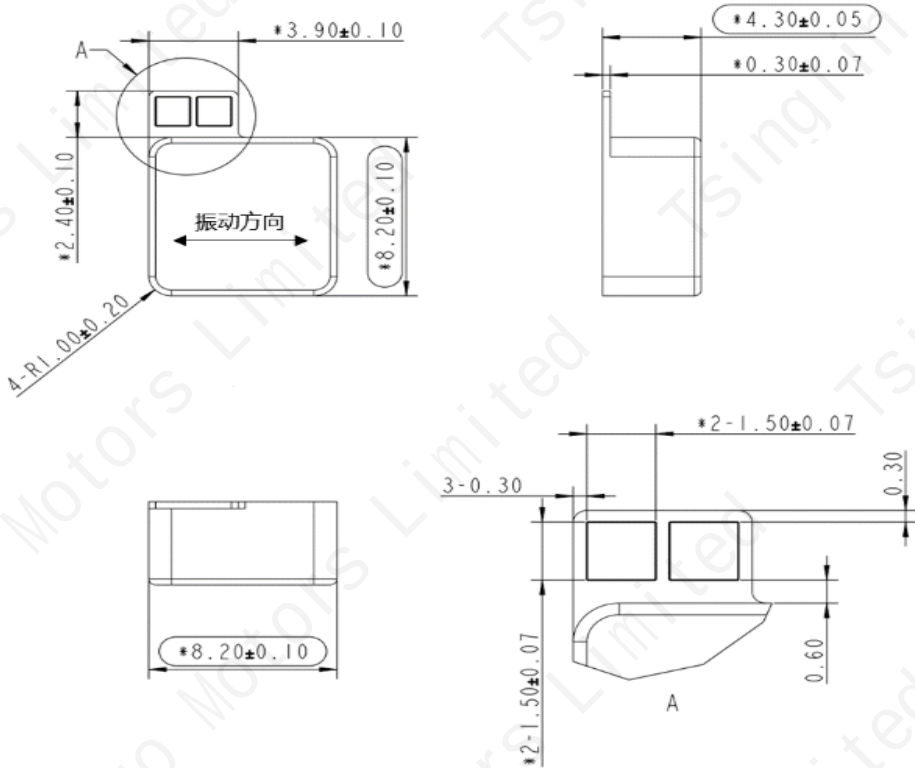


KEY SPECIFICATIONS

Length*Width	8.2*8.2 mm	Thickness	4.3mm
Rated Voltage	1.2Vrms AC	Operating Voltage	1.2 Vrms AC
Rated Current (Max.)	200 mA	Rated Frequency	170±8 Hz
Vibration Direction	X axis	Vibration Force	0.85±0.12Grms

MECHANICAL DRAWING

Dimensions in mm



8*9*3.5 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

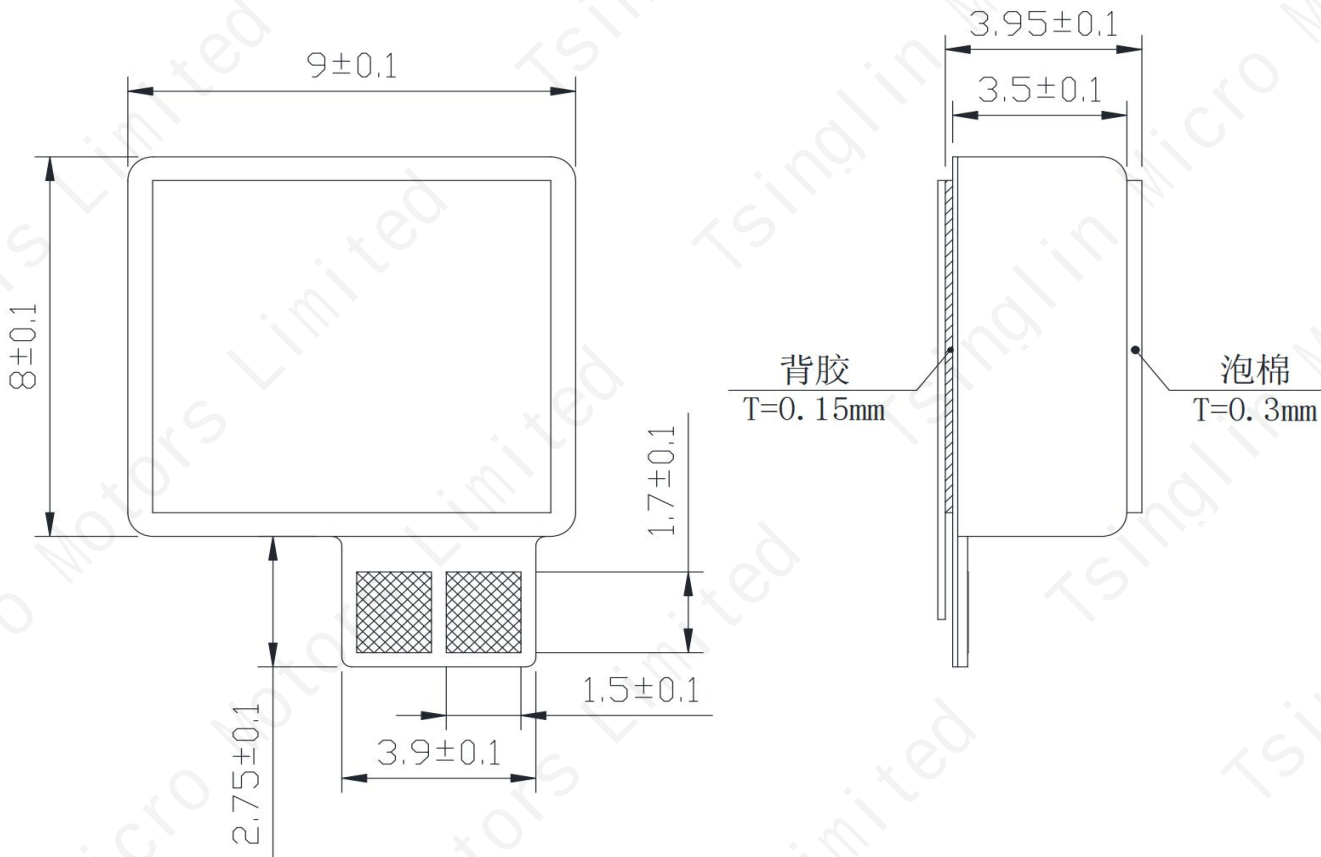


KEY SPECIFICATIONS

Length*Width	8*9 mm	Thickness	3.5mm
Rated Voltage	0.9Vrms AC	Operating Voltage	0.9Vrms AC
Rated Current (Max.)	145 mA	Rated Frequency	170 Hz
Vibration Direction	X axis	Vibration Force	0.90±0.15Grms

MECHANICAL DRAWING

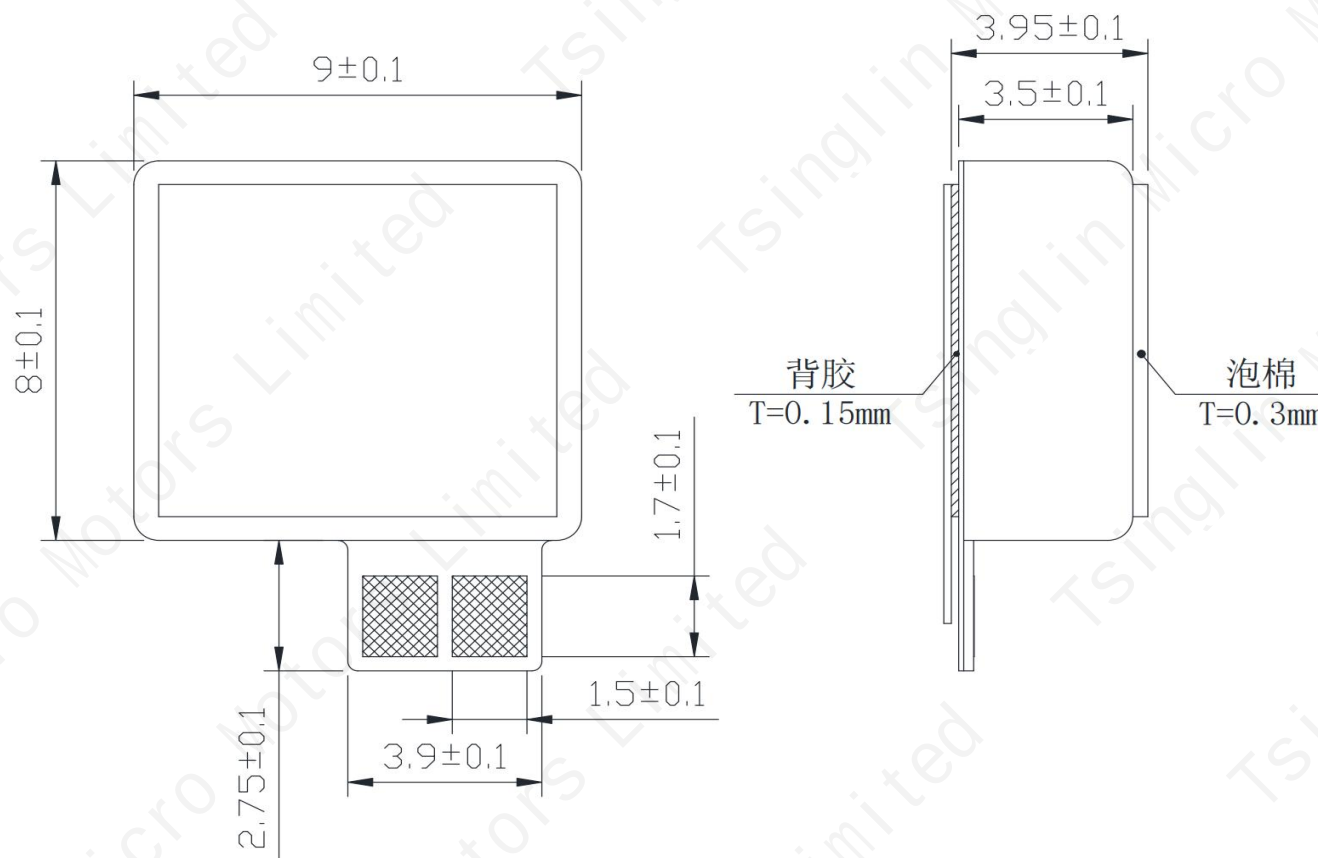
Dimensions in mm



Compact Z-axis haptic vibration actuator

Length*Width	8*9 mm	Thickness	3.5mm
Rated Voltage	0.9Vrms AC	Operating Voltage	0.1-0.9Vrms AC
Rated Current (Max.)	145 mA	Rated Frequency	175±10 Hz
Vibration Direction	X axis	Vibration Force	2 Grms Min.

Dimensions in mm



8*15*3 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

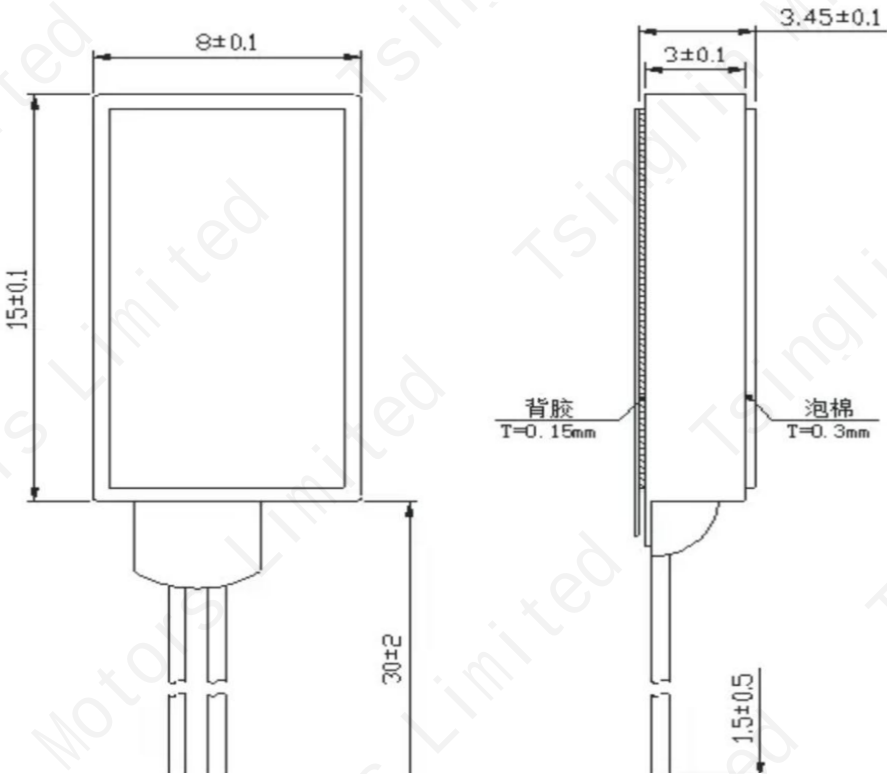


KEY SPECIFICATIONS

Length*Width	8*15 mm	Thickness	3mm
Rated Voltage	3.0Vrms AC	Operating Voltage	0.1-3.0 Vrms AC
Rated Current (Max.)	90 mA	Rated Frequency	175±10Hz
Vibration Direction	X axis	Vibration Force	3.0Grms Min.

MECHANICAL DRAWING

Dimensions in mm



8*15*3 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

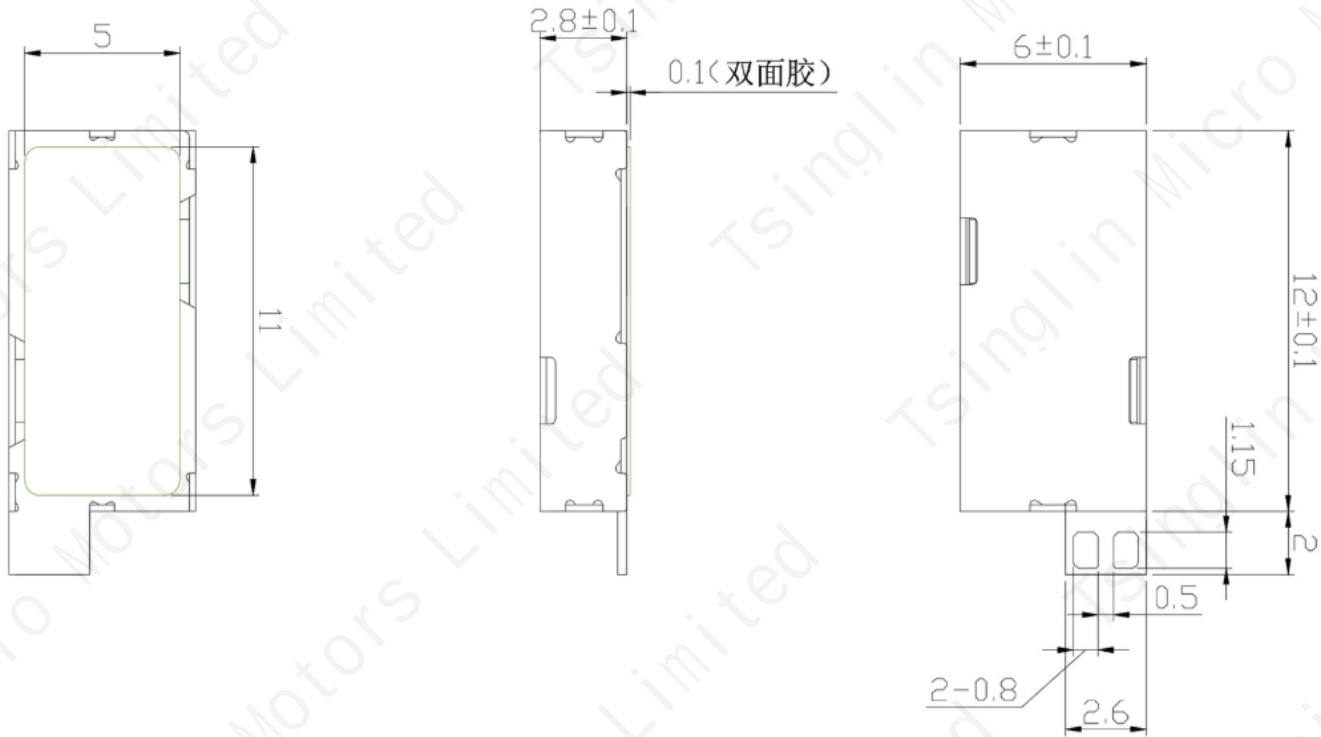


KEY SPECIFICATIONS

Length*Width	8*15 mm	Thickness	3mm
Rated Voltage	2.0±0.05Vrms AC	Operating Voltage	0-2.05 Vrms AC
Rated Current (Max.)	135 mA	Rated Frequency	200Hz
Vibration Direction	X axis	Vibration Force	1.5Grms Min.

MECHANICAL DRAWING

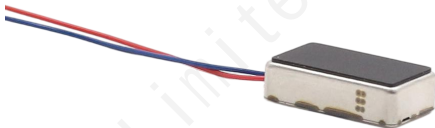
Dimensions in mm



9*16*4 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

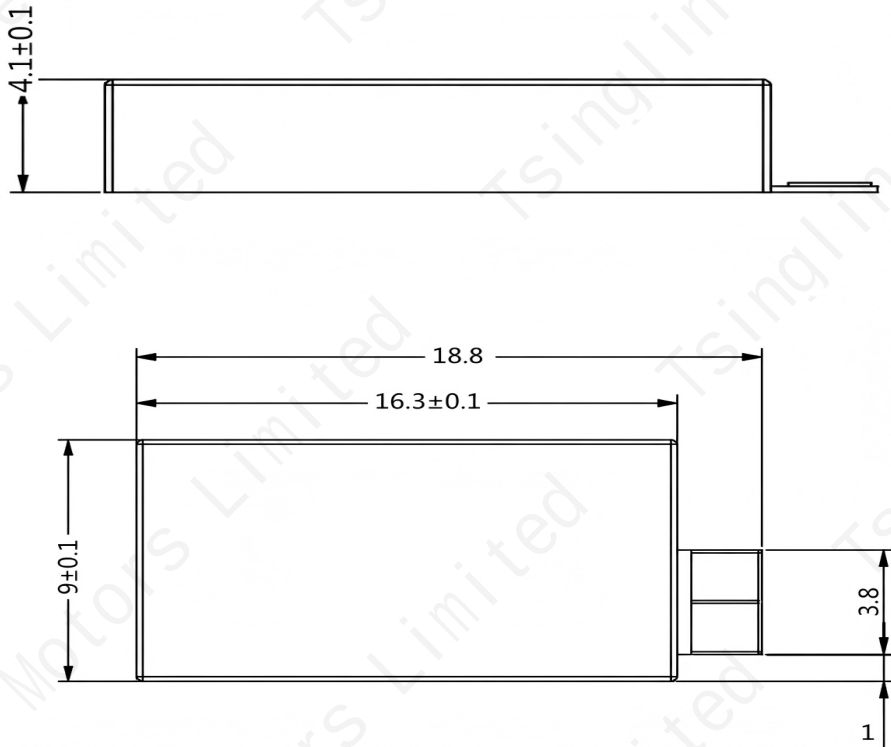


KEY SPECIFICATIONS

Length*Width	9*16 mm	Thickness	4mm
Rated Voltage	1.2Vrms AC	Operating Voltage	1.2 Vrms AC
Rated Current (Max.)	170 mA	Rated Frequency	130Hz
Vibration Direction	X axis	Vibration Force	1.4Grms Min.

MECHANICAL DRAWING

Dimensions in mm



15*32*08 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW

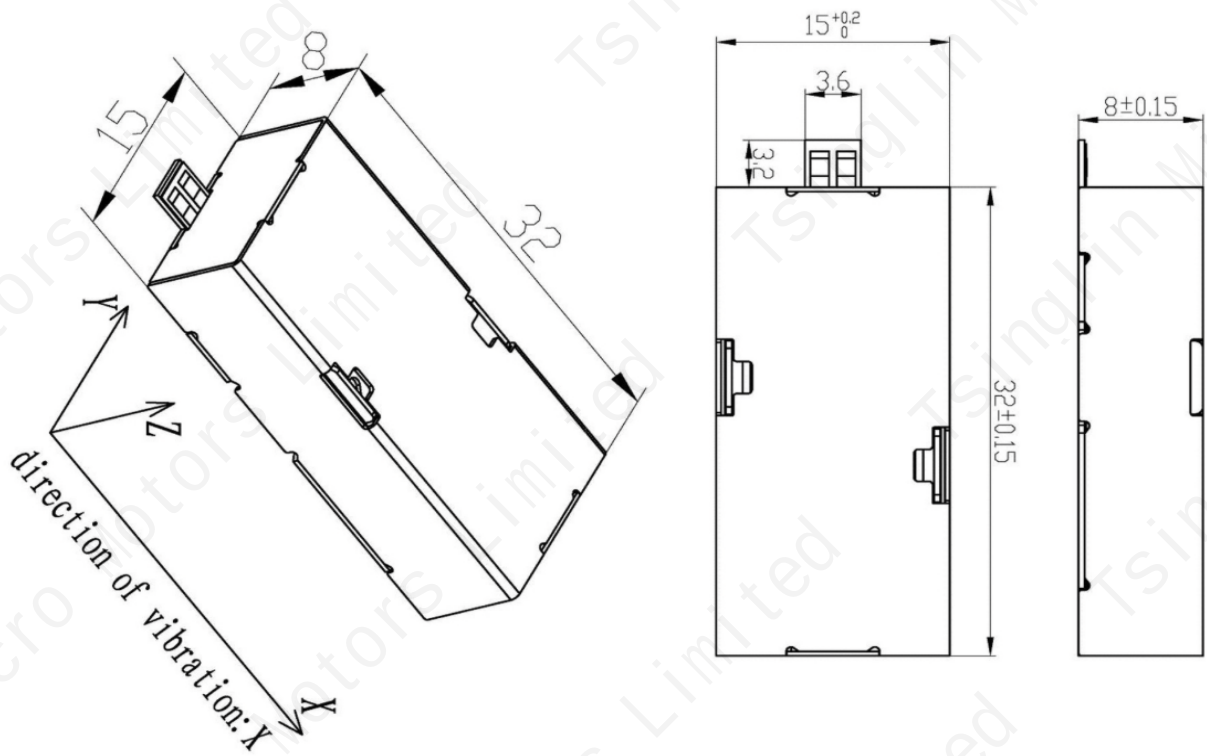


KEY SPECIFICATIONS

Length*Width	15*32 mm	Thickness	8mm
Rated Voltage	2.0±0.05Vrms AC	Operating Voltage	2.0±0.05Vrms AC
Rated Current (Max.)	300 mA	Rated Frequency	1300Hz
Vibration Direction	X axis	Vibration Force	3.5Grms Min.

MECHANICAL DRAWING

Dimensions in mm



17*26*62 mm Linear Resonant Actuator (LRA)

Compact Z-axis haptic vibration actuator

PRODUCT VIEW



KEY SPECIFICATIONS

Length*Width	17.8*26 mm	Thickness	6.2mm
Rated Voltage	2.0Vrms AC	Operating Voltage	2.0Vrms AC
Rated Current (Max.)	240 mA	Rated Frequency	65±5Hz
Vibration Direction	X axis	Vibration Force	2.5±0.4Grms

MECHANICAL DRAWING

Dimensions in mm

