

ZLB-12SX04

2023/07/20

Outline



The USZ (Ultra Small Z-direction) series is an ideal actuator for applications where space is limited, such as wearable devices including smartwatches, and tactile feedback needs to be added. Due to its ultra-small size, it can be easily integrated into compact housings.

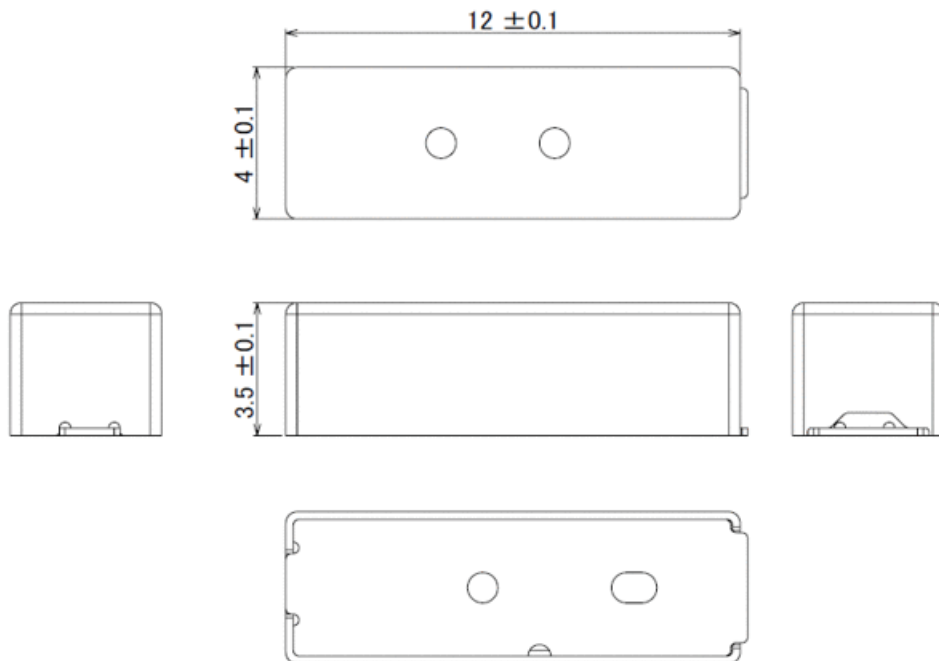
Specifications

Type	USZ
Outline dimensions	W12.0mm D4.0mm H3.5mm
Rated resonant frequency [Hz]	160
Rated acceleration [Gpp]	0.8Gpp(38g)
Rated input voltage [Vrms]	1.8
Rated current at f0 [mArms]	100 MAX
Power consumption at f0 [mW]	200 MAX
Terminal resistance [Ω]	28.0
Rise time [msec]	≤100(10%to90%)
Fall time [msec]	≤400(90%to10%)

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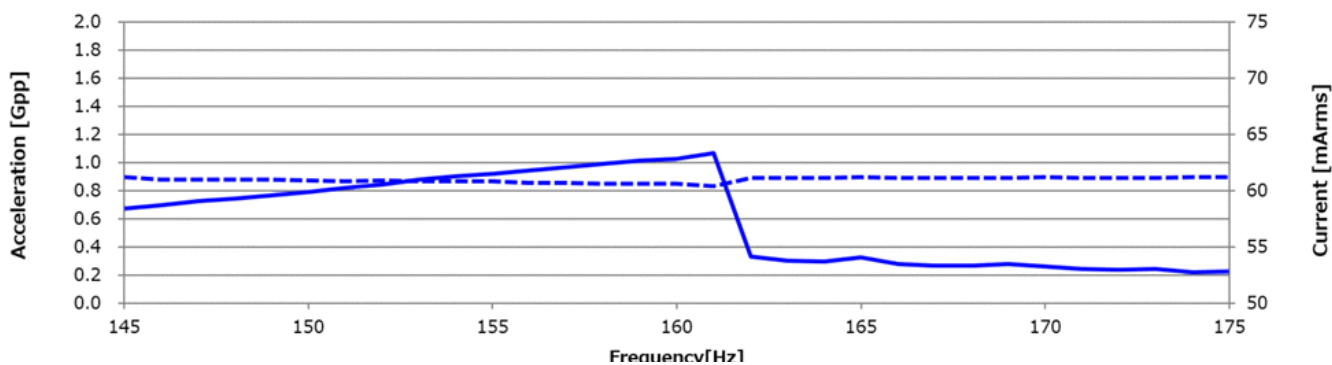
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Dimensions



Electric Characteristics

Electrical Characteristics								
Measuring method		Input voltage : 1.8Vrms			Input waveform : Sine wave		Jig weight : 38g	
Item	Resonant Frequency [f ₀]	Acceleration at f ₀	Current		Power consumption		Rise time	Fall time
			at f ₀	at 175Hz	at f ₀	at 175Hz	10% to 90%	90% to 10%
Specification	160±20	0.8 MIN	100 MAX	-	200 MAX	-	100ms MAX	400ms MAX
Unit	Hz	Gpp	mArms	mArms	mW	mW	m sec	m sec
Typical value	161	1.07	60.4	61.2	107.2	108.7	57.1	228.0



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