



BS-AL1 is a MEMS accelerometer series with a dynamic range from 2 to 100 g.

- Digital output
- High reliability
- Small size

	BS-AL1-70-DICS	BS-AL1-100-DICS	Unit
			/
Measurement axis	X (parallel to the device surface)	X (parallel to the device surface)	/
Dynamic range	70*	100*	g
Zero bias stability (1s smooth 1 Sigma)	<150	<300	ug
Monthly repeatability	400~700	400~700	ug
Zero-bias temperature coefficient	<7	<10	ug/°C
Bandwidth (adjustable)	>100	>100	Hz
Scale factor	100000	75000	Lsb/g
Scale nonlinearity	<1000	<1000	ppm
Scale Monthly repeatability	<100	<100	ppm
Scale temperature coefficient	<5	<5	ppm/°C
Start-up time	<0.1	<0.1	s
Sampling frequency (adjustable)	25000	25000	Hz
Shock (charged)	18000	18000	g
Shock (uncharged)	18000	18000	g
Vibration error (6grms)	/	/	mg/grms
Operating temperature	-55-85	-55-85	°C

*for datasheets for models with dynamic range 2-50 g please consult the representative

	BS-AL1-70-D1CS	BS-AL1-100-D1CS	
Vibration error (6grms)	/	/	mg/grms
Operating temperature	-55-85	-55-85	°C
Voltage	5±0.1	5±0.1	V
Rated current	<11	<11	mA
Interface	SPI	SPI	SPI

