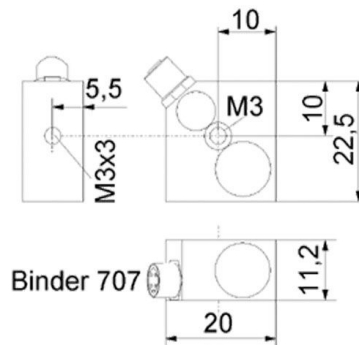


# Triaxial Accelerometer

**KS943B100**

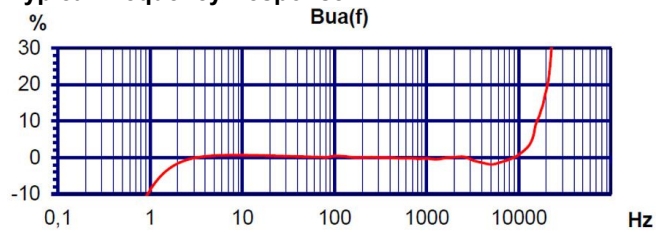
## Properties

- Small dimensions
- Central drilling for easy mounting and axis alignment
- Two sensitivity versions (10 and 100 mV/g)
- Applicable up to 120 °C

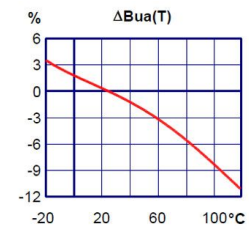


Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	100	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	60	g
Destruction limit	8000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,5	Hz
Upper frequency limit (3 dB)	22000 (Z)	Hz
Lower frequency limit (10 %)	1	Hz
Upper frequency limit (10 %)	16000 (Z); 10000 (X/Y)	Hz
Lower frequency limit (5 %)	1,5	Hz
Upper frequency limit (5 %)	14000 (Z)	Hz
Resonant frequency	>32 (Z)	kHz
Resonance amplitude	25	dB
Constant current supply	2 - 20	mA
Bias voltage at 4 mA	12 - 14	V
Output impedance	<150	Ω
Residual noise; wide band; RMS	<400 (0,5 - 20000 Hz)	μg
Noise density 1 Hz	100	μg/√Hz
Noise density 10 Hz	15	μg/√Hz
Noise density 100 Hz	4	μg/√Hz
Noise density 1000 Hz	1	μg/√Hz
Operating temperature range	-20 - 120	°C
Temperature coefficient of voltage sensitivity	-0,08 (<20 °C)	%/K
	-0,08 (20 - 80 °C)	%/K
	-0,11 (>80 °C)	%/K
Temperature transient sensitivity	0,015	m/s²/K
Weight without cable	16	g
Case material	Aluminum	
Connector direction	radial	
Connector	Binder 707	
Mounting	M3 (Y/Z)	

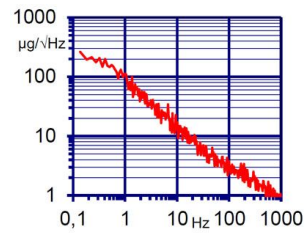
### Typical Frequency Response



### Temperature Coefficient



### Noise Characteristics



### Connection Accessories

- 091-B707-B711-3

### Mounting Accessories

- 308
- 140

### Delivery version with accessories kit KS943B100/01

- KS943B100
- 034-B711f-BNC
- 308
- 021

**Notice:** The standard delivery includes an individual data sheet.  
Upon request, we also offer DAkkS-accredited calibration.

Manfred Weber

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