

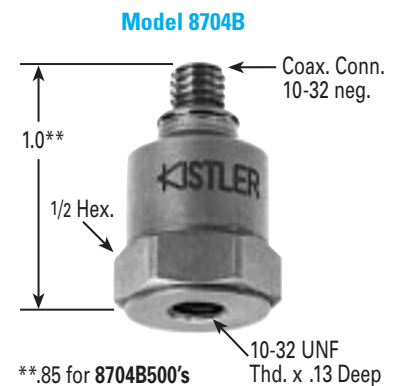
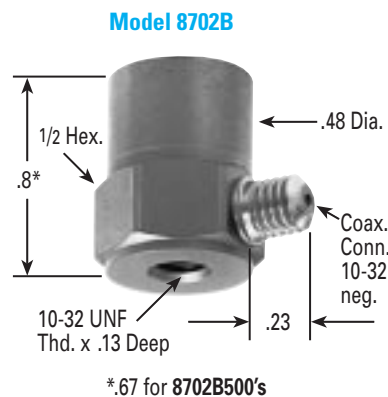
KISTLER

8702B & 8704B SERIES

ACCELERATION

Low Impedance K-SHEAR. Incorporates Kistler K-SHEAR quartz design for high performance qualities in a lightweight, rugged, hermetically sealed package. Significantly reduced thermal, transverse and base strain sensitivities compared to conventional compressive designs. Advanced hybrid electronics allow for sensitivities to 200 mV/g and a frequency response out to 10 kHz. M1 versions offer ground isolation. M5 versions are rated for high temperature (330°F), while M8 versions are for low temperature, cryogenic (–320°F) applications.

Some 8704B(X) accelerometers are also rated for high g or shock applications up to 5,000g. Call Kistler for details.



Request Data Bulletins K8.8702B & K8.8704B for more details.

SPECIFICATIONS		8702B25 8704B25	8702B50 8704B50	8702B100 8704B100	8702B500 8704B500
Acceleration range	<i>g</i>	±25	±50	±100	±500
Acceleration limit	<i>g</i>	±50	±100	±200	±1,000
Transverse limit	<i>g</i>	±50	±100	±200	±1,000
Threshold	<i>g_{rms}</i>	0.003	0.005	0.009	0.01
Sensitivity (nom.)	mV/g	200	100	50	10
Resonant frequency (nom.)	kHz	54	54	54	54
Frequency response, ±5%	Hz	1 to 9k	0.5 to 9k	0.35 to 9k	0.5 to 10k
Frequency response, ±10%	Hz	0.7 to 10k	0.35 to 10k	0.25 to 10k	0.35 to 11k
Time constant (nom.)	s	0.5	1	1.5	1
Shock (1 ms pulse), max.	<i>g</i>	2,000	2,000	2,000	5,000
Transverse sensitivity (nom.)	%	≤1.5	≤1.5	≤1.5	≤1.5
Linearity	%	±1	±1	±1	±1
Operating temp. range	°F	–65 to 215*	–65 to 215*	–65 to 215*	–65 to 250*
Temperature coefficient of sensitivity	%/°F			–0.03 <100	
Output impedance	Ω				
Power supply	mA & VDC		2 to 20 (constant current) & 18 to 30		
Weight	<i>g</i>			<10 <8	
Ground isolated version		M1 Suffix	M1 Suffix	M1 Suffix	M1 Suffix
High temp. (330°F) version		—	—	—	M5 Suffix**
Cryogenic (–320°F) version		—	—	—	M8 Suffix**
*with 4mA excitation					
**8702B500 only					
Recommended Cable		1761B(X)	1761B(X)	1761B(X)	1761B(X)

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