


KNOWLES Dampers and Microphones

 This product is RoHS compliant.

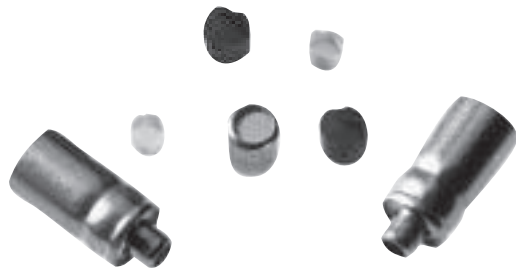


DAMPERS

Damping elements are used between the receiver outlet and the ear canal to smooth out the frequency response. Various acoustical resistances and sizes are available.

Features:

- Damping plug has metal ferrule housing, 2.08mm nominal O.D. by 1.78mm nominal I.D. for mounting to acoustic tubing
- Damping screens are acoustic cloth screens only for insertion inside acoustic tubing
- Other resistances or diameters available upon request



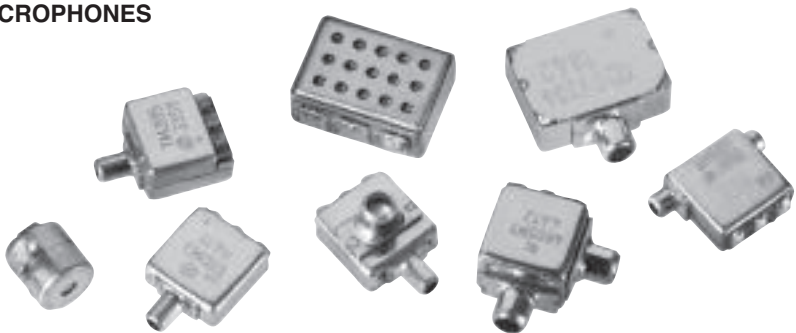
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For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	Knowles Part No.	Dimensions: mm	Resistance	Color	Price Each		
					1	10	25
721-BF-1859-000	BF-1859-000	2.08 dia x 2.44	680	White	107.20	95.29	90.52
721-BF-1860-000	BF-1860-000	2.08 dia x 2.44	1000	Brown	107.20	95.29	90.52
721-BF-1861-000	BF-1861-000	2.08 dia x 2.44	1500	Green	107.20	95.29	90.52
721-BF-1921-000	BF-1921-000	2.08 dia x 2.44	2200	Red	107.20	95.29	90.52
721-BF-1922-000	BF-1922-000	2.08 dia x 2.44	3300	Orange	107.20	95.29	90.52
721-BF-1923-000	BF-1923-000	2.08 dia x 2.44	4700	Yellow	107.20	95.29	90.52
721-BF-1999-000	BF-1999-000	2.08 dia x 2.44	330	Grey	107.20	95.29	90.52

SUBMINIATURE PERFORMANCE MICROPHONES

Hundreds of design possibilities can be applied to your product challenge with our high-performance microphone designs. Ideal for new product ideas that require premium audio and very small form factors, solutions include noise canceling, omni-directional and unidirectional performance. Other variables include size, shape, amplification, sensitivity, low noise, and resistance to vibration and mechanical shock.



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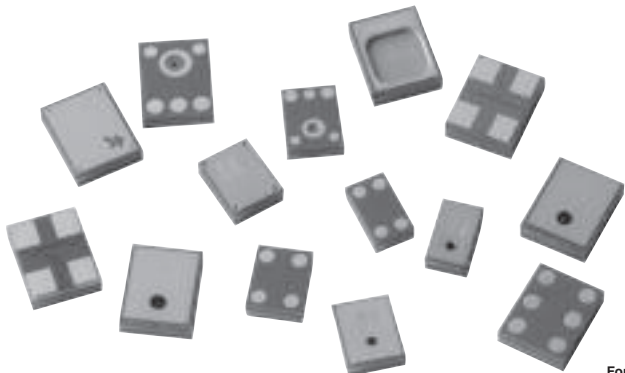
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MOUSER STOCK NO.	Knowles Part No.	Dimensions: mm	1 kHz Sensitivity	Port Location	Response	Directional	Peak Frequency	Noise Max. (Input Ref.)	Noise Max. (Output Noise)	Price Each		
										1	10	25
721-BJ-21590-000	BJ-21590-000	7.92 x 5.70 x 4.14	-75	0Jn	Bandpass	Omni-directional	2000	-	-	34.16	30.36	27.33
721-EM-23046-P16	EM-23046-P16	3.61 x 3.61 x 2.21	-56	12B	Standard	Omni-directional	5000	31 dB	-	25.11	22.32	21.20
721-FG-23629-C36	FG-23629-C36	2.59 dia x 2.59	-53	0KN	Flat	Omni-directional	10000	28 dB	-	28.52	25.35	24.08
721-FG-23629-P16	FG-23629-P16	2.59 dia x 2.59	-53	0KN	Flat	Omni-directional	10000	28 dB	-	28.52	25.35	24.08
721-FG-23742-D36	FG-23742-D36	2.59 dia x 2.59	-63	0KN	Flat	Omni-directional	10000	36 dB	-	28.52	25.35	22.81
721-NR-23160-000	NR-23160-000	4.00 x 5.59 x 2.28	-52	JA/KA	Flat	Noise-Cancelling	-	-	-100 dB	20.69	18.39	17.47
721-EK-23024-P07	EK-23024-P07	5.56 x 3.98 x 2.21	-53	12S	Standard	Omni-directional	5500	26 dB	-	22.03	19.58	17.63
721-EK-23132-C36	EK-23132-C36	5.56 x 3.98 x 2.21	-53	KA	Broadband	Omni-directional	10000	26 dB	-	29.07	27.06	25.07

MEMS MICROPHONES

Features:

- Bottom port "Zero Height" microphones for thinnest ever designs
- UltraMini footprint - less than 11.5mm²
- Digital mics eliminate analog noise
- Integrated designs with amplified or differential outputs



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MOUSER STOCK NO.	Knowles Part No.	Dimensions: mm	RF Immunity	Port Location	Signal Processing / Output	Normal Sensitivity @ 1kHz (db V/Pa)	Price Each		
							1	10	25
721-SPM0404HD5H	SPM0404HD5H	4.72 x 3.76 x 1.10	Standard	Top	Analog	-42	3.10	2.76	2.62
721-SPM0404HE5H	SPM0404HE5H	4.72 x 3.76 x 1.10	Enhanced	Top	Analog	-42	3.40	3.03	2.87
721-SPM0404LE5H	SPM0404LE5H	4.72 x 3.76 x 1.10	Enhanced	Bottom	Analog	-38	3.51	3.12	2.97
721-SPM0405HD4H	SPM0405HD4H	4.72 x 3.76 x 1.10	Standard	Top	Digital	-26 dBFS	4.27	3.80	3.61
721-SPM0406HE3H	SPM0406HE3H	4.72 x 3.76 x 1.10	Enhanced	Top	Analog Differential	-22	4.01	3.57	3.39
721-SPM0408HD5H	SPM0408HD5H	4.72 x 3.76 x 1.10	Standard	Top	Analog Amplified	-22	3.39	3.01	2.86
721-SPM0408HE5H	SPM0408HE5H	4.72 x 3.76 x 1.10	Enhanced	Top	Analog Amplified	-22	3.86	3.43	3.26
721-SPU0409LE5H	SPU0409LE5H	3.76 x 2.95 x 1.10	Enhanced	Bottom	Analog	-38	8.00	6.67	5.57

