

# KNOWLES Dampers and Microphones

RoHS Compliant This product is RoHS compliant.

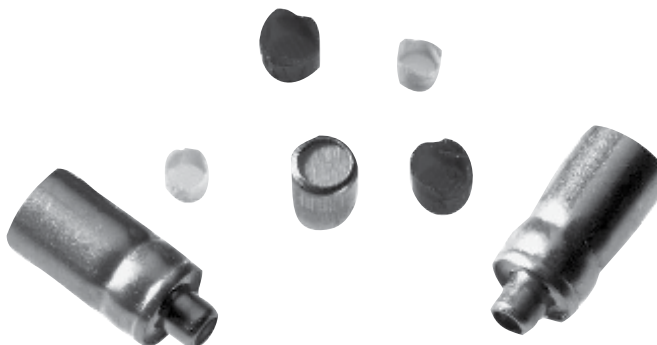


## DAMPERS

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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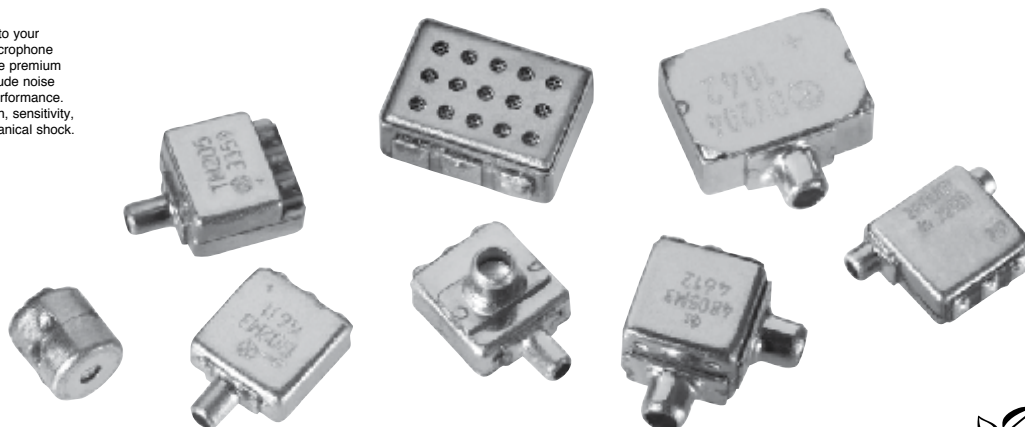
For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	Knowles Part No.	Dimensions: mm	1kHz Sensitivity	Port Location	Price Each		
					1	10	25
<a href="#">721-BF-1859-000</a>	BF-1859-000	2.08 dia x 2.44	680	White	1.19	1.07	.95
<a href="#">721-BF-1860-000</a>	BF-1860-000	2.08 dia x 2.44	1000	Brown	1.19	1.07	.95
<a href="#">721-BF-1861-000</a>	BF-1861-000	2.08 dia x 2.44	1500	Green	1.19	1.07	.95
<a href="#">721-BF-1921-000</a>	BF-1921-000	2.08 dia x 2.44	2200	Red	1.19	1.07	.95
<a href="#">721-BF-1922-000</a>	BF-1922-000	2.08 dia x 2.44	3300	Orange	1.19	1.07	.95
<a href="#">721-BF-1923-000</a>	BF-1923-000	2.08 dia x 2.44	4700	Yellow	1.19	1.07	.95
<a href="#">721-BF-1999-000</a>	BF-1999-000	2.08 dia x 2.44	330	Grey	1.19	1.07	.95

Knowles

## 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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MOUSER STOCK NO.	Knowles Part No.	Dimensions: mm	1kHz Sensitivity	Port Location	Response	Directional	Peak Frequency	Noise Max. (Input Ref.)	Noise Max. (Output Noise)	Price Each		
										1	10	25
<a href="#">721-BJ-21590-000</a>	BJ-21590-000	7.92 x 5.70 x 4.14	-75	0Jn	Bandpass	Omni-directional	2000	-	-	34.16	30.36	27.33
<a href="#">721-BL-21785-000</a>	BL-21785-000	7.87x 5.54 x 2.24	-69	12S	-	Omni-directional	4000	34.0 dB	-	88.97	79.08	71.18
<a href="#">721-BL-23497-000</a>	BL-23497-000	7.92 x 5.59 x 2.28	-69	Top	-	Omni-directional	4000	34.0 dB	-	146.96	130.63	124.10
<a href="#">721-BU-27135-000</a>	BU-27135-000	7.92 x 5.59 x 4.14	-45	-	-	Omni-directional	5200	-103.0 dB	5500	47.19	41.95	37.75
<a href="#">721-BU-21771-000</a>	BU-21771-000	7.87 x 5.54 x 4.06	-45	-	-	Omni-directional	5200	-103.0 dB	5500	49.55	44.05	39.64
<a href="#">721-BT-21751-000</a>	BT-21751-000	7.87 x 5.54 x 2.24	-50	12S	-	Omni-directional	4400	40.0 dB	6800	22.15	19.69	18.70
<a href="#">721-EM-23046-P16</a>	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
<a href="#">721-EM-23046-C36</a>	EM-23046-C36	3.61 x 3.61 x 2.21	-56	12B	Standard	Omni-directional	10000	31.0 dB	6800	25.11	22.32	21.20
<a href="#">721-FG-23329-P07</a>	FG-23329-P07	2.59 dia x 2.59	-53	OKN	Flat	Omni-directional	10000	30.0 dB	6800	40.77	36.24	34.43
<a href="#">721-FG-23629-C36</a>	FG-23629-C36	2.59 dia x 2.59	-53	OKN	Flat	Omni-directional	10000	28 dB	-	28.52	25.35	24.08
<a href="#">721-FG-23629-P16</a>	FG-23629-P16	2.59 dia x 2.59	-53	OKN	Flat	Omni-directional	10000	28 dB	-	28.52	25.35	24.08
<a href="#">721-FG-23742-D36</a>	FG-23742-D36	2.59 dia x 2.59	-63	OKN	Flat	Omni-directional	10000	36 dB	-	28.52	25.35	22.81
<a href="#">721-NR-23158-000</a>	NR-23158-000	4 x 5.59 x 2.28	-49	JA/JK	Standard	Omni-directional	4400	40.0 dB	6800	20.69	18.39	17.47
<a href="#">721-NR-23160-000</a>	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
<a href="#">721-EK-3024</a>	EK-3024	5.59 x 4.01 x 4.01	-60	12S	Flat	Omni-directional	10000	26.0 dB	6800	17.96	17.06	16.16
<a href="#">721-EK-23024-P07</a>	EK-23024-P07	5.56 x 3.98 x 2.21	-53	12S	Standard	Omni-directional	5000	26 dB	-	22.03	19.58	17.63
<a href="#">721-EK-23024-C36</a>	EK-23024-C36	5.56 x 3.98 x 2.21	-53	12S	Broadband	Omni-directional	5000	26.0 dB	6800	20.20	17.95	16.16
<a href="#">721-EK-23028-P22</a>	EK-23028-P22	5.56 x 3.98 x 2.21	-57	12S	Standard	Omni-directional	4400	100.0 dB	6800	22.03	19.58	18.60
<a href="#">721-EK-23029-C36</a>	EK-23029-C36	5.56 x 3.98 x 2.21	-53	12S	Broadband	Omni-directional	5500	53 dB	6800	20.92	18.60	17.67
<a href="#">721-EK-23132-C36</a>	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
<a href="#">721-EK-23977-C36</a>	EK-23977-C36	5.56 x 3.98 x 2.21	-53	Top	Broadband	Omni-directional	8000	26.0 dB	6800	22.03	19.58	18.60

Audio