

Piezo Diaphragm Series

External-Driven Diaphragm Series

External-Driven Diaphragm

Clear Sound, High SPL, Power Consumption, Small and Lightweight ...

HideTechnical Data

Diameter: 9.9 mm to 56 mm FT: Piezo Diaphragm

Material: T: Brass, N: Nickel-alloy, G: Stainless Steel

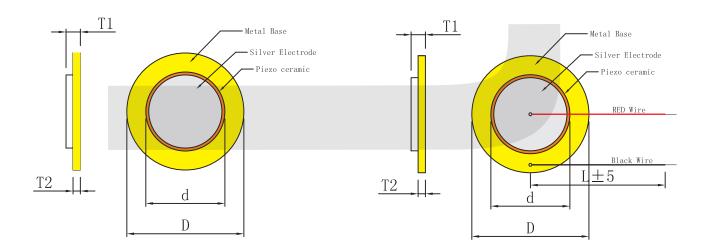
A (Shape): External-Driven Type

Tolerance:

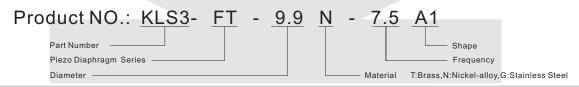
 $\begin{array}{ll} \text{D (Diameter):} & \pm \, 0.1 \text{mm} \\ \text{d (Ceramic Dia):} & \pm \, 0.3 \text{mm} \\ \text{T1 (Total Thickness):} & \pm \, 0.05 \text{mm} \\ \text{T2 (Ceramic thickness):} & \pm \, 0.03 \text{mm} \end{array}$

Dimensions (Unit:mm)





ORDER INFORMATION





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Order Code	Shape	C (nF)	Zr(Ω)	Fr (KHz)	D (mm)	d (mm)	T1 (mm)	T2 (mm)	Metal
KLS3-FT-9. 9N-7. 5A1	A1	10nF±30%	500	7.5±1.0	9. 9	7	0. 12	0. 05	Alloy
KLS3-FT-10. 5N-10. 0A1	A1	5. 5nF \pm 30%	500	10.0±0.8	10. 5	8	0. 17	0. 05	Alloy
KLS3-FF-11N-6. 5A1	A1	10nF±30%	500	6.5±0.5	11	8	0. 12	0. 05	Alloy
KLS3-FT-11N-9. 0A1	A1	11nF±30%	500	9.0±0.5	11	8	0. 17	0. 1	Alloy
KLS3-FT-11G-10. 0A1	A1	9. 5nF \pm 30%	300	10±0.5	11	8	0. 19	0. 11	Brass
KLS3-FT-11G-9. 6A1	A1	12nF \pm 30%	500	9.6±0.5	11	8	0. 17	0. 1	SUS
KLS3-FT-11T-9. 6A1	A1	12nF \pm 30%	500	9.6±0.5	11	8	0. 17	0. 1	Brass
KLS3-FT-12. 5T-8. 5 A1	A1	11nF±30%	300	8.5±0.5	12. 5	10	0. 22	0. 1	Brass
KLS3-FT-12N-5. 5AI	A1	13nF \pm 30%	500	5.5±0.5	12	9	0. 12	0. 05	Alloy
KLS3-FT-12N-6. 0A1	A1	13nF \pm 30%	500	6.0±0.5	12	9	0. 12	0. 05	Alloy
KLS3-FT-12T-5. 3A1	A1	15nF±30%	500	5.3±0.5	12	9	0. 12	0. 05	Brass
KLS3-FT-12T-5. 8A1	A1	16nF \pm 30%	500	5.8±0.6	12	9. 4	0. 12	0. 05	Brass
KLS3-FT-12T-6. 0A1	A1	17nF \pm 30%	500	6.0±0.5	12	9	0. 12	0. 06	Brass
KLS3-FT-12T-6. 5A1	A1	15nF \pm 30%	300	6.5±0.5	12	9	0. 15	0. 09	Brass
KLS3-FT-12T-8. 0A1	A1	15nF \pm 30%	300	8.0±0.5	12	9	0. 19	0. 1	Brass
KLS3-FT-12T-8. 5A1	A1	10nF_30%	300	8.5±0.7	12	9	0. 2	0. 08	Brass
KLS3-FT-12T-9.05 A1	A1	15nF \pm 30%	300	9.05±0.5	12	9	0. 22	0. 1	Brass
KLS3-FT-12T-9. 0A1	A1	12nF \pm 30%	300	9.0±0.5	12	10	0. 2	0. 1	Brass
KLS3-FT-13. 5T-7. 0 A1	A1	12nF \pm 30%	300	7.0±0.5	13. 5	9	0. 22	0. 1	Brass
KLS3-FT-13N-4. 5A1	A1	15nF \pm 30%	500	4.5±0.5	13	9	0. 12	0. 05	Alloy
KLS3-FT-13T-6. 5A1	A1	13nF \pm 30%	500	6.5±0.5	13	9	0. 18	0. 1	Brass
KLS3-FT-14N-4. 3A1	A1	70nF \pm 30%	300	4.3±0.5	14	12	0. 12	0. 05	Alloy
KLS3-FT-15N-4. 2A1	A1	34nF \pm 30%	500	3.5±0.5	15	12	0. 13	0. 05	Alloy
KLS3-FT-15N-4. 6A1	A1	20nF \pm 30%	500	4.6±0.5	15	12	0. 2	0. 1	Alloy
KLS3-FT-15T-10. 0A1	A1	9nF \pm 30%	300	10.0±0.5	15	11. 3	0. 37	0. 2	Brass
KLS3-FT-15T-3. 5A1	A1	35 nF \pm 30%	300	3.5±0.5	15	12	0. 12	0. 05	Brass
KLS3-FT-15T-4. 5A1	A1	12nF±30%	300	4.5±0.5	15	9	0. 2	0. 1	Brass
KLS3-FT-15T-5. 8AI	A1	10nF \pm 30%	800	5.8±0.5	15	9	0. 21	0. 09	Brass
KLS3-FT-15T-6. 0A1	A1	15nF±30%	300	6.0±0.5	15	12	0. 22	0. 1	Brass
KLS3-FT-15T-6. 0A1	A1	10nF \pm 30%	300	6.0±0.5	15	11.3	0. 22	0. 1	Brass





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Order Code	Shape	C (nF)	Zr(Ω)	Fr (KHz)	D (mm)	d (mm)	T1 (mm)	T2 (mm)	Metal
KLS3-FT-15T-6. 0A1	A1	11nF±30%	300	6.0±0.5	15	10	0. 22	0. 1	Brass
KLS3-FT-15T-6. 0A1	A1	9nF \pm 30%	300	9. 05±0. 5	15	10	0. 32	0. 12	Brass
KLS3-FT-17. 2N-3. 5A1	A1	32 nF $\pm30\%$	300	3.5±0.5	17. 2	13. 4	0. 18	0. 1	Alloy
KLS3-FT-18T-3. 6A1	A1	15nF \pm 30%	300	3.6±0.5	18	12	0. 2	0. 08	Brass
KLS3-FT-19. 9T-3. 6A1	A1	20nF+30%	300	3.6±0.5	20	14	0. 22	0. 1	Brass
KLS3-FT-20G-7. 5A1	A1	12nF \pm 30%	300	7.5±0.5	20	15	0. 45	0. 23	SUS
KLS3-FT-20N-2. 0A1	A1	70nF \pm 30%	300	2.0±0.5	20	15	0. 13	0. 05	Alloy
KLS3-FT-20N-2. 6A1	A1	24nF \pm 30%	300	2.6±0.5	20	15	0. 15	0. 05	Alloy
KLS3-FF-20N-3. 2A1	A1	24nF \pm 30%	300	3. 2±0. 5	20	15	0. 2	0. 1	Alloy
KLS3-FT-20T-2. 5A1	A1	70nF \pm 30%	300	2.5±0.5	20	15	0. 15	0. 08	Brass
KLS3-FT-20T-3. 0A1	A1	30nF \pm 30%	300	3.0±0.3	20	15	0. 19	0. 1	Brass
KLS3-FT-20T-3. 4A1	A1	20nF \pm 30%	300	3.4±0.5	20	15	0. 22	0. 1	Brass
KLS3-FT-20T-3. 6A1	A1	21nF±30%	300	3.6±0.5	20	15	0. 22	0. 1	Brass
KLS3-FT-20T-3. 8A1	A1	19nF±30%	300	3.8±0.5	20	15	0. 26	0. 13	Brass
KLS3-FT-20T-4. 0A1	A1	20nF \pm 30%	300	4.0±0.5	20	15	0. 22	0. 14	Brass
KLS3-FT-20T-4. 0A1	A1	26nF \pm 30%	300	4.0±0.5	20	15	0. 26	0. 14	Brass
KLS3-FT-20T-4. 8A1	A1	16nF \pm 30%	300	4.8±0.5	20	15	0. 3	0. 15	Brass
KLS3-FT-20T-5. 5A1	A1	15nF \pm 30%	300	5.5±0.5	20	15	0. 37	0. 2	Brass
KLS3-FT-20T-6. 0A1	A1	13nF \pm 30%	300	6.0±0.5	20	15	0. 42	0. 2	Brass
KLS3-FT-20T-6. 5A1	A1	15nF \pm 30%	300	6.5±0.5	20	15	0. 42	0. 25	Brass
KLS3-FT-20T-7. 2A1	A1	12nF \pm 30%	300	7. 2±0. 5	20	15	0. 47	0. 25	Brass
KLS3-FT-21G-3. 3A1	A1	26nF \pm 30%	300	3.3±0.5	21.5	15	0. 21	0. 1	SUS
KLS3-FT-21T-4. 5A1	A1	18nF+30%	300	4.5±0.5	21	15	0. 3	0. 15	Brass
KLS3-FT-22T-4. 8A1	A1	12nF \pm 30%	300	4.8±0.5	22	16.8	0. 37	0. 15	Brass
KLS3-FT-27G-3. 6A1	A1	20nF \pm 30%	300	3.6±0.5	27	20	0. 42	0. 2	SUS
KLS3-FT-27T-2. 0A1	A1	50nF \pm 30%	300	2.0±0.5	27	20	0. 2	0. 1	Brass
KLS3-FT-27T-2. 3A1	A1	45nF±30%	300	2.3±0.5	27	20	0. 22	0. 1	Brass
KLS3-FT-27T-2. 5A1	A1	45nF \pm 30%	300	2.5±0.5	27	20	0. 26	0. 14	Brass
KLS3-FT-27T-2. 8A1	A1	20nF \pm 30%	300	2.8±0.5	27	20	0. 32	0. 1	Brass
KLS3-FT-27T-3. 5A1	A1	30nF \pm 30%	300	3.5±0.5	27	20	0. 37	0. 2	Brass



BUZZER



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Order Code	Shape	C (nF)	Zr(Ω)	Fr (KHz)	D (mm)	d (mm)	T1 (mm)	T2 (mm)	Metal
KLS3-FT-27T-3. 6A1	A1	20nF ± 30%	300	3.6±0.5	27	20	0. 42	0. 2	Brass
KLS3-FT-27T-4. 0A1	A1	23nF \pm 30%	300	4.0±0.5	27	20	0. 52	0. 3	Brass
KLS3-FT-27T-4. 0A1	A1	20nF \pm 30%	300	4. 0±0. 5	27	20	0. 47	0. 25	Brass
KLS3-FT-27T-4. 6A1	A1	20nF±30%	300	4.6±0.5	27	20	0. 52	0. 3	Brass
KLS3-FT-30T-0. 9A1	A1	49nF \pm 30%	300	0.9±0.5	30	20	0. 16	0. 05	Brass
KLS3-FT-31G-1. 6A1	A1	45nF \pm 30%	300	1.6±0.5	31	20	0. 22	0. 1	SUS
KLS3-FT-31N-1. 4A1	A1	45nF \pm 30%	300	1.4±0.5	31	20	0. 22	0. 1	Alloy
KLS3-FT-31T-1. 4A1	A1	45nF \pm 30%	300	1.4±0.5	31	20	0. 22	0. 1	Brass
KLS3-HFT-31T-1. 4A1	A1	70nF±T30%	300	1.4±0.5	31	20	0. 22	0. 1	Brass
KLS3-FT-32T-2. 9A1	A1	30 nF \pm 30%	300	2.9±0.5	32	25	0. 42	0. 2	Brass
KLS3-FT-35T-1.8A1	A1	70nF \pm 30%	300	1.8±0.5	35	25	0. 32	0. 2	Brass
KLS3-FT-35T-2. 3A1	A1	28nF \pm 30%	300	2.3±0.5	35	25	0. 42	0. 2	Brass
KLS3-FT-35T-2. 6A1	A1	28nF \pm 30%	300	2.6±0.5	35	25	0. 52	0. 3	Brass
KLS3-FT-38T-2. 8A1	A1	32nF \pm 30%	300	2.8±0.2	38	25	0. 73	0. 47	Brass
KLS3-FT-39T-2. 4A1	A1	32nF \pm 30%	400	2.4±0.5	39	25	0. 66	0. 4	Brass
KLS3-FT-41N-0. 7A1	A1	80nF \pm 30%	800	0.7±0.5	41	25	0. 22	0. 1	Alloy
KLS3-FT-41T-1. 0A1	A1	80nF \pm 30%	800	1.0±0.5	41	25	0. 22	0. 1	Brass
KLS3-FT-41T-1. 2A1	A1	75nF \pm 30%	800	1.2±0.5	41	25	0. 27	0. 15	Brass
KLS3-FT-43T-0. 8A1	A1	75nF \pm 30%	800	0.8±0.5	43	25	0. 22	0. 1	Brass
KLS3-FT-45T-0. 7A1	A1	80nF \pm 30%	300	0.7±0.5	45	25	0. 22	0. 1	Brass
KLS3-FT-50T-1.8AI	A1	75nF \pm 30%	300	1.8±0.5	50	25	0. 22	0. 1	Brass
KLS3-FT-50T-2. 1A1	A1	75nF \pm 30%	300	2.1±0.5	50	25	0. 27	0. 15	Brass
KLS3-FT-50T-2. 7A1	A1	35 nF $\pm30\%$	300	2.7±0.5	50	25	0. 42	0. 2	Brass
KLS3-FT-50T-3. 0A1	A1	28nF \pm 30%	300	3.0±0.5	50	25	0. 42	0. 2	Brass
KLS3-FT-55G-3. 2A1	A1	30nF±30%	300	3. 2±0. 5	55	25	0. 42	0. 2	SUS

