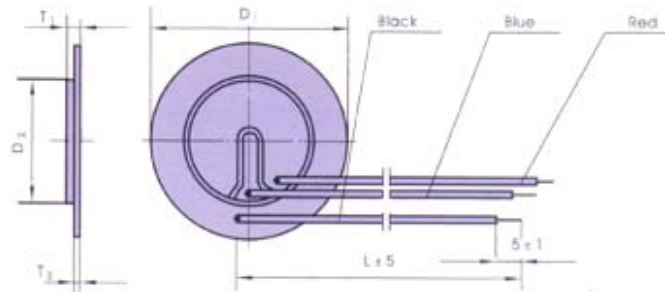
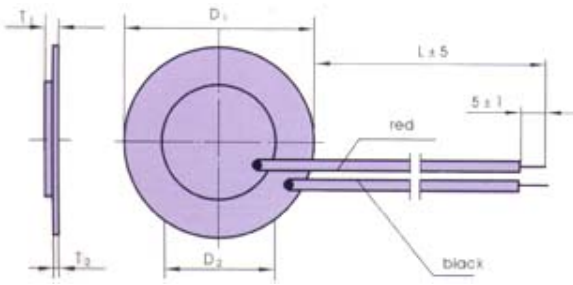


External-driven Piezo Element with Lead Wire

Self-driven Piezo Element with Lead Wire



ELECTRICAL SPECIFICATIONS :					
Model No.	FML-12T-9.2A1-L	FML-13.5T-7.7A1-L	FML-15T-7.9A1-L	FML-20T-4.5A1-L	FML-20T-6.0A1-L
Outer diameter (mm)D1	$\varnothing 12 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 13.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 15 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 20 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 20 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
Ceramic diameter (mm)D2	$\varnothing 8.5 \pm 0.1$	$\varnothing 10 \pm 0.1$	$\varnothing 11 \pm 0.2$	$\varnothing 14.7 \pm 0.2$	$\varnothing 14.7 \pm 0.2$
Total thickness (mm) T1	0.20 ± 0.04	0.24 ± 0.04	0.30 ± 0.04	0.30 ± 0.04	0.40 ± 0.05
Plate thickness (mm) T2	0.07 ± 0.02	0.10 ± 0.02	0.19 ± 0.02	0.19 ± 0.02	0.23 ± 0.03
Resonant frequency (kHz)	9.2 ± 0.6	7.7 ± 0.5	7.9 ± 0.7	4.5 ± 0.4	6.0 ± 0.5
Resonant Impedance (Ω)	≤ 500	≤ 800	≤ 400	≤ 500	≤ 300
Static capacitance (nF $\pm 30\%$)	10	10	14	24	15
Wire Standard	UL1571-30AWG			UL1095-28AWG	
Material of metal plate	Brass				
Model No.	FML-27T- 3.9A1-L	FML-31T- 4.0A1-L	FML-34.7T- 2.9B1-L	FML-35T- 3.0A1-L	FML-41T- 1.0A1-L
Outer diameter (mm) D1	$\varnothing 27 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 31 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 34.7 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 35 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	$\varnothing 41 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
Ceramic diameter (mm) D2	$\varnothing 20 \pm 0.2$	$\varnothing 20 \pm 0.20$	$\varnothing 25 \pm 0.25$	$\varnothing 25 \pm 0.25$	$\varnothing 25 \pm 0.25$
Total thickness (mm) T1	0.48 ± 0.05	0.24 ± 0.04	0.55 ± 0.05	0.60 ± 0.05	0.25 ± 0.04
Plate thickness (mm) T2	0.23 ± 0.03	0.10 ± 0.02	0.25 ± 0.03	0.38 ± 0.03	0.12 ± 0.02
Resonant frequency (kHz)	3.9 ± 0.3	4.0 ± 0.5	2.9 ± 0.3	3.0 ± 0.4	1.0 ± 0.5
Resonant Impedance(Ω)	≤ 200	≤ 300	≤ 250	≤ 200	≤ 1000
Static capacitance (nF $\pm 30\%$)	23	45	24	32	66
Wire Standard	UL1095-28AWG	UL1571-30AWG		UL1095-28AWG	
Material of metal plate	Brass				