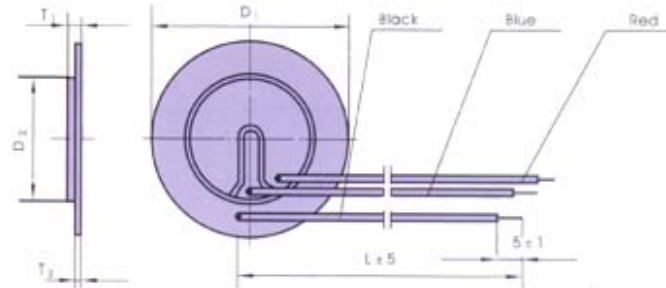
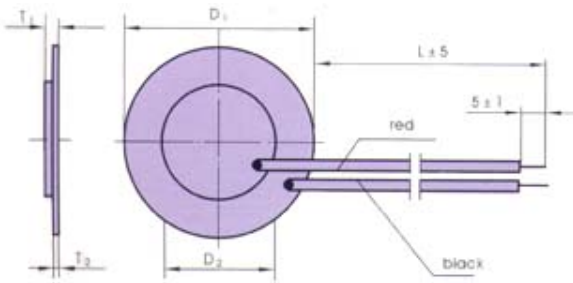


External-driven Piezo Element with Lead Wire

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	$0.20 \pm 0.04$	$0.24 \pm 0.04$	$0.30 \pm 0.04$	$0.30 \pm 0.04$	$0.40 \pm 0.05$
Plate thickness (mm) T2	$0.07 \pm 0.02$	$0.10 \pm 0.02$	$0.19 \pm 0.02$	$0.19 \pm 0.02$	$0.23 \pm 0.03$
Resonant frequency (kHz)	$9.2 \pm 0.6$	$7.7 \pm 0.5$	$7.9 \pm 0.7$	$4.5 \pm 0.4$	$6.0 \pm 0.5$
Resonant Impedance ( $\Omega$ )	$\leq 500$	$\leq 800$	$\leq 400$	$\leq 500$	$\leq 300$
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	$0.48 \pm 0.05$	$0.24 \pm 0.04$	$0.55 \pm 0.05$	$0.60 \pm 0.05$	$0.25 \pm 0.04$
Plate thickness (mm) T2	$0.23 \pm 0.03$	$0.10 \pm 0.02$	$0.25 \pm 0.03$	$0.38 \pm 0.03$	$0.12 \pm 0.02$
Resonant frequency (kHz)	$3.9 \pm 0.3$	$4.0 \pm 0.5$	$2.9 \pm 0.3$	$3.0 \pm 0.4$	$1.0 \pm 0.5$
Resonant Impedance( $\Omega$ )	$\leq 200$	$\leq 300$	$\leq 250$	$\leq 200$	$\leq 1000$
Static capacitance (nF $\pm$ 30%)	23	45	24	32	66
Wire Standard	UL1095-28AWG	UL1571-30AWG		UL1095-28AWG	
Material of metal plate	Brass				