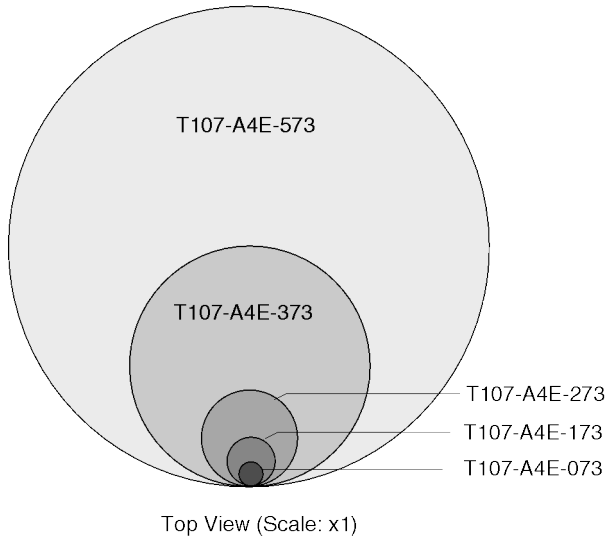
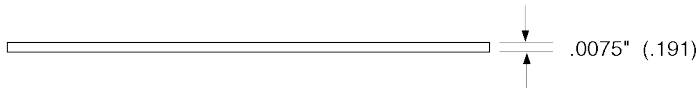


PSI-5A4E SINGLE LAYER DISKS
.0075" (.191mm) THICK



PART NUMBER	DIAMETER		CAPACITANCE
	inches	mm	nF (±10%)
T107-A4E-073	.125	3.2	.65
T107-A4E-173	.250	6.4	2.7
T107-A4E-273	.500	12.7	10.6
T107-A4E-373	1.25	31.8	66.4
T107-A4E-573	2.50	63.5	265



PIEZO ELECTRIC & MATERIAL PROPERTIES OF PSI-5A4E SINGLE LAYER DISKS

PIEZO ELECTRIC

Composition	Lead Zirconate Titanate	
Piezo Systems Material Designation	PSI 5A4E (Industry Type 5A, Navy Type II)	
Relative Dielectric Constant (@1KHz)	K^T_{33}	1800
Piezoelectric Strain Coefficient	d_{33}	390×10^{-12} meter/Volt
	d_{31}	-190×10^{-12} meter/Volt
Piezoelectric Voltage Coefficient	g_{33}	24.0×10^{-3} Volt meter/Newton
	g_{31}	-11.6×10^{-3} Volt meter/Newton
Coupling Coefficient	k_{33}	0.72
	k_{31}	0.32
Polarization Field	E_p	2×10^6 Volt/meter
Initial Depolarization Field	E_c	5×10^5 Volt/meter

MECHANICAL

Density	ρ	7800	Kg/meter ³
Mechanical Q		80	
Elastic Modulus	Y^E_3	5.2×10^{10}	Newton/meter ²
	Y^E_1	6.6×10^{10}	Newton/meter ²

THERMAL

Thermal Expansion Coefficient		$\sim 4 \times 10^{-6}$	meter/meter °C
Curie Temperature		350	°C

ROHS Compliant. Piezoceramic exempted from requirements of Article 4(I).

ORDERING INFORMATION	PART NO.	1 pc.	5 pc.	25 pc.	100 pc.
PSI-5A4E (.125" Diameter x .0075"T)	T107-A4E-073	\$55	\$37	\$17	\$5
PSI-5A4E (.250" Diameter x .0075"T)	T107-A4E-173	\$66	\$44	\$22	\$8
PSI-5A4E (.500" Diameter x .0075"T)	T107-A4E-273	\$83	\$50	\$28	\$12
PSI-5A4E (1.25" Diameter x .0075"T)	T107-A4E-373	\$110	\$83	\$50	\$33
PSI-5A4E (2.50" Diameter x .0075"T)	T107-A4E-573	\$165	\$142	\$110	\$99