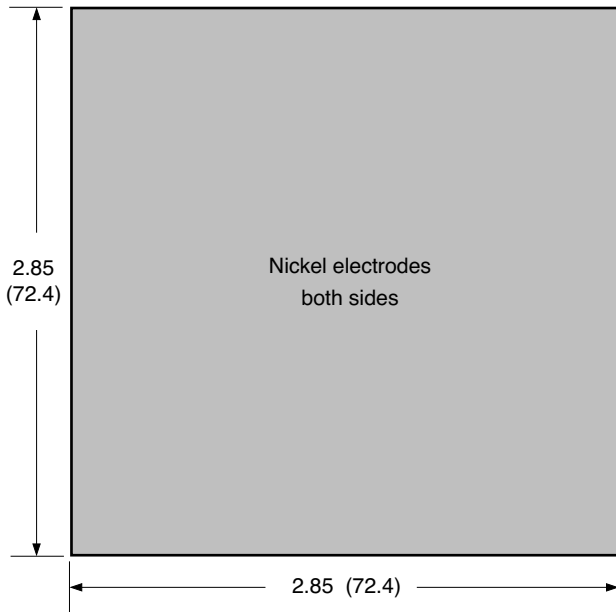


PSI-5A4E PIEZOELECTRIC SINGLE SHEETS



PART NUMBER	THICKNESS	CAPACITANCE
	mm	nF (±10%)
T105-A4E-602	.127	650
T107-A4E-602	.191	430
T110-A4E-602	.267	315
T120-A4E-602	.508	162
T140-A4E-602	1.02	80
T180-A4E-602	2.03	40

.005 ± .0005	(.127 ± .013)
.0075 ± .0005	(.191 ± .013)
.0105 ± .0005	(.267 ± .013)
.020 ± .0005	(.508 ± .013)
.040 ± .0010	(1.016 ± .025)
.080 ± .0020	(2.032 ± .050)

PIEZOELECTRIC & MATERIAL PROPERTIES OF PSI-5A4E SINGLE SHEETS

PIEZOELECTRIC

Composition	Lead Zirconate Titanate	
Piezo Systems Material Designation	Type 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}	0.35
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_{33}	5.2×10^{10} Newton/meter ²
	Y^E_{31}	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(1)

ORDERING INFORMATION	PART NO.	1 pc.	5 pc.	25 pc.	100 pc.
PSI-5A4E (2.85" Square x .005"T)	T105-A4E-602	\$100	\$70	\$50	\$35
PSI-5A4E (2.85" Square x .0075"T)	T107-A4E-602	\$100	\$60	\$40	\$30
PSI-5A4E (2.85" Square x .0105"T)	T110-A4E-602	\$100	\$70	\$50	\$35
PSI-5A4E (2.85" Square x .020"T)	T120-A4E-602	\$125	\$90	\$70	\$60
PSI-5A4E (2.85" Square x .040"T)	T140-A4E-602	\$150	\$120	\$90	\$80
PSI-5A4E (2.85" Square x .080"T)	T180-A4E-602	\$250	\$200	\$175	\$150