PIEZO SYSTEMS, INC.
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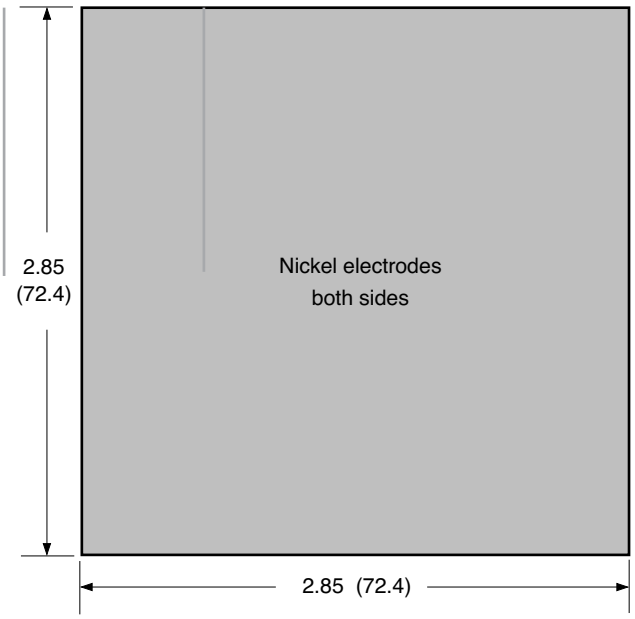
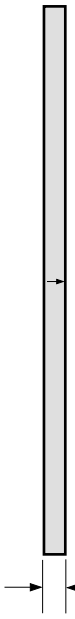
PSI-5H4E PIEZOELECTRIC SINGLE SHEETS





PART NUMBER	THICKNESS	CAPACITANCE
	mm	nF (±10%)
T105-H4E-602	.127	1250
T107-H4E-602	.191	850
T110-H4E-602	.267	610

.005 ± .0005 (.127 ± .013)
.0075 ± .0005 (.191 ± .013)
.0105 ± .0005 (.267 ± .013)

PIEZOELECTRIC & MATERIAL PROPERTIES OF PSI-5H4E SINGLE SHEETS

PIEZOELECTRIC			
Composition		Lead Zirconate Titanate	
Piezo Systems Material Designation		Type 5H4E (Industry Type 5H, Navy Type VI)	
Relative Dielectric Constant (@1KHz)	K^T_3	3800	
Piezoelectric Strain Coefficient	d_{33}	650×10^{-12}	meter/Volt
	d_{31}	-320×10^{-12}	meter/Volt
Piezoelectric Voltage Coefficient	g_{33}	19.0×10^{-3}	Volt meter/Newton
	g_{31}	-9.5×10^{-3}	Volt meter/Newton
Coupling Coefficient	k_{33}	.75	
	k_{31}	.44	
Polarization Field	Ep	1.5×10^6	Volt/meter
Initial Depolarization Field	Ec	3.0×10^5	Volt/meter
MECHANICAL			
Density	ρ	7800	$Kg/meter^3$
Mechanical Q		32	
Elastic Modulus	Y^E_3	5.0×10^{10}	$Newton/meter^2$
	Y^E_1	6.2×10^{10}	$Newton/meter^2$
THERMAL			
Thermal Expansion Coefficient		$\sim 3 \times 10^{-6}$	meter/meter °C
Curie Temperature		230	°C

ROHS Compliant / Piezoceramic exempted from requirements of Article 4(1)

ORDERING INFORMATION	PART NO.	1 pc.	5 pc.	25 pc.	100 pc.
PSI-5H4E (2.85" Square x .005"T)	T105-H4E-602	$100	$70	$50	$35
PSI-5H4E (2.85" Square x .0075"T)	T107-H4E-602	$100	$60	$40	$30
PSI-5H4E (2.85" Square x .0105"T)	T110-H4E-602	$100	$70	$50	$35