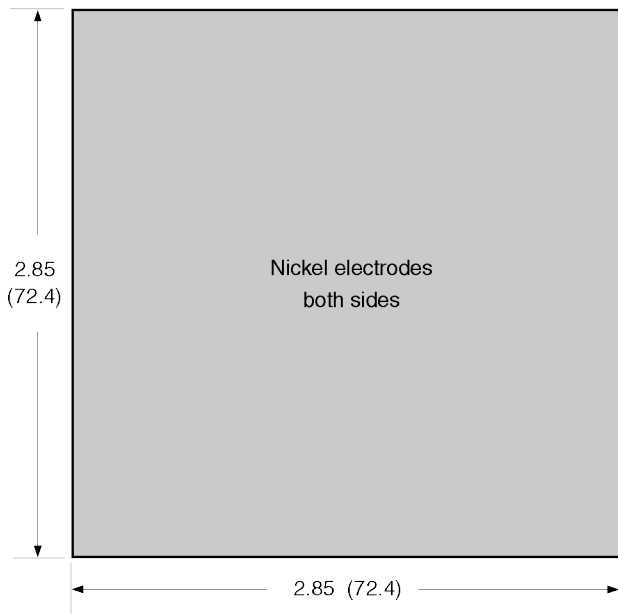


PSI-5H4E PIEZOELECTRIC SINGLE SHEETS



| 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) | KT_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 | E_p | 1.5×10^6 Volt/meter |
| Initial Depolarization Field | E_c | 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 | \$110 | \$77 | \$55 | \$39 |
| PSI-5H4E (2.85" Square x .0075"T) | T107-H4E-602 | \$110 | \$66 | \$44 | \$33 |
| PSI-5H4E (2.85" Square x .0105"T) | T110-H4E-602 | \$110 | \$77 | \$55 | \$39 |