

## PRODUCT SPECIFICATION SHEET

### Paktron Part Number: 474K400ST6-FA

Construction: Non-inductively constructed with metallized polyester dielectric (Polyethylene terephthalate).  
Parallel plate - multilayer film.  
Electrode: Aluminum metallization

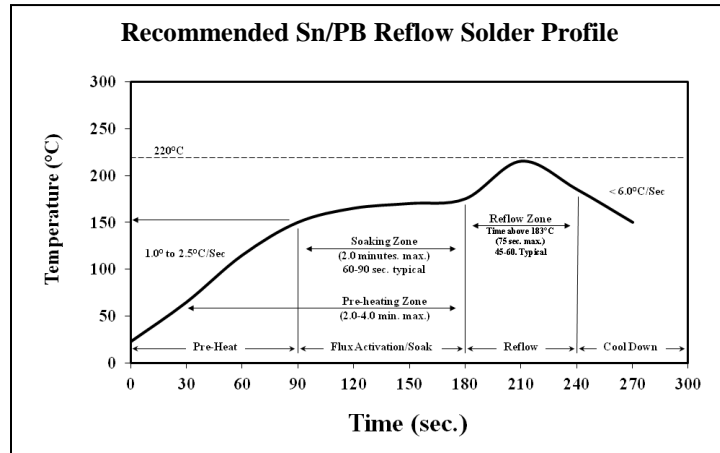
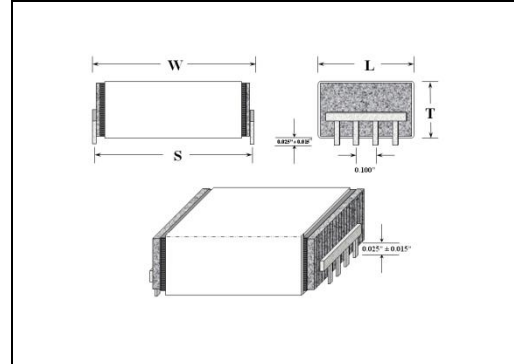
Enclosure: Self-encased

Capacitance: 0.47  $\mu\text{F} \pm 10\%$

Rated Voltage: 400 VDC

Marking: Logo, type, capacitance code, tolerance code and voltage on packaging.

Packaging: Tubed  
Dry packed – MSL 4



L max = 0.540" Max (15.50mm)  
T max = 0.280" Max (7.11mm)  
W max = 0.610" Max (13.72mm)  
S = 0.600" ± .020" (15.24mm ± 0.5mm)  
Lead Frame = 0.10 x 0.20" ± .005"  
Lead Plating = 100% Sn with nickel underplating  
Lead Height = 0.025" ± .015"  
"P" lead configuration

Electrical	Environmental
Capacitance Value: 0.47 $\mu\text{F} \pm 10\%$ Rated Voltage: 400 vdc Dissipation Factor: $\leq 1.0\%$ @ 25°C, 1KHz Insulation Resistance: $\geq 1000$ Megohms x $\mu\text{F}$ @ 100 vdc Dielectric Strength: 640 VDC for 2 seconds max. Temperature Range: -55°C to 125°C ESR: 11.0 milliohms @ 500 KHz RMS Current: 6.2 amps @ 500 KHz	DC Life: 1,000 Hours, 85°C, 1.25 x Rated VDC $\Delta C/C \leq 5\%$ DF $\leq 1.0\%$ , 1KHz, 25°C IR $\geq 1000$ Megohms x $\mu\text{F}$  Moisture: 85°C / 85% RH / 21 days $\Delta C/C < 7\%$ DF $\leq 1.0\%$ , 1kHz, 25°C IR $\geq 30\%$ of initial limit  Long Term Stability: After 2 years storage, standard environment $\Delta C/C \leq 2\%$
Mechanical	RoHS
Vibration: Mil Std 202 Method 204D Peak Reflow: 220°C max. Reflow Zone: > 183°C, 75 Sec. max. Solder Resistance: 220°C, 30 Sec. $\Delta C/C \leq 5\%$ Can be used at standard Pb-Free reflow temperatures (i.e. 245°C) when used in combination with customer applied thermal shielding.	<b>Categorized RoHS-6:</b> RoHS-6 means that the component's content of six RoHS banned materials (Pb, Hg, CrVI, Cd, PBB and PBDE) is under the industry's defined limits. Component lead wires are plated with 100% Sn. Customer assumes all responsibility for the application suitability of products with 100% Sn secondary interconnects.