

## PRODUCT SPECIFICATION SHEET

### Paktron Part Number: 506K100CS4-FA

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

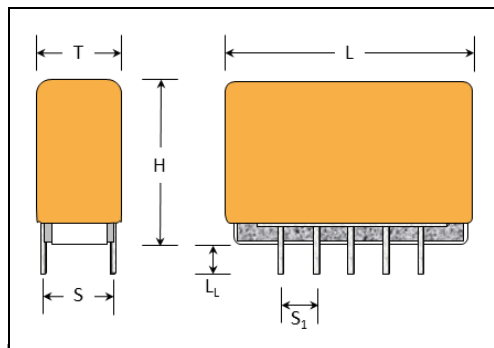
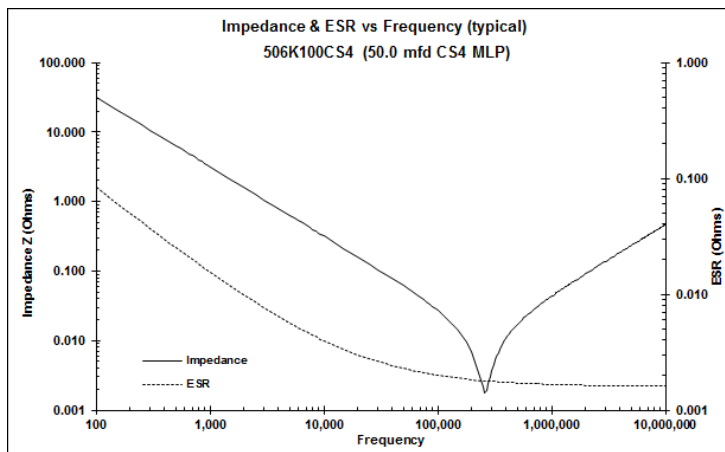
Enclosure: Open frame with UL94 V-0 flame retardant epoxy coating

Capacitance: 50.0  $\mu\text{F} \pm 10\%$

Rated Voltage: 100 VDC

Marking: Logo, type, capacitance code, tolerance code, voltage and date code.

Packaging: Anti-static tube packed



L max = 1.250" Max (31.75mm)  
T max = 0.500" Max (12.70mm)  
H max = 0.800" Max (20.32mm)  
S = 0.400"  $\pm .020$ " (10.16mm  $\pm 0.5$ mm)  
S<sub>1</sub> = 0.200"  $\pm .005$ " (5.08mm  $\pm 0.5$ mm)  
Lead Frame = 0.10 x 0.20"  $\pm .005$ "  
Lead Plating = 100% Sn with nickel underplating  
L<sub>1</sub> = 0.150"  $\pm .020$ "  
Thru-hole "I" lead configuration

Electrical	Environmental
Capacitance Value: 50.0 $\mu\text{F} \pm 10\%$ Rated Voltage: 100 vdc Dissipation Factor: $\leq 1.0\%$ @ 25°C, 1KHz Insulation Resistance: $\geq 1000$ Megohms x $\mu\text{F}$ @ 10 vdc Dielectric Strength: 130 VDC for 2 seconds max. Temperature Range: -55°C to 85°C ESR: $< 2.0$ milliohms @ 500 KHz RMS Current: 35.0 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 $\Delta C/C \leq 7\%$ 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 Solder Resistance: 260°C, 5 Sec. $\Delta C/C \leq 2\%$	<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.