



# CapCad™

## CapCad™ Selection

DLI's web based CapCad™ capacitor modeling software was developed to provide customers with an easy to use and readily accessible comparison tool for choosing the best Single-Layer, Multi Layer or Broadband Blocking capacitor to suit the customer's needs. CapCad™ includes SPICE models with values that reflect typical performance at the chosen frequencies and temperatures that are of importance to an application. The user

also has the ability to plot 2-port Scattering Parameters, Impedance, Q Factor or Equivalent Capacitance over any frequency span from 1 MHz to 40 GHz while maintaining the ability to adjust the temperature and note how it may affect the performance. CapCad™ also includes a Smith Chart utility and the ability to copy the S-Parameter data in touchtone format(s2p).

**T-Caps**

W= 0.010  
L= 0.010  
T= 0.0030  
in mm

Material: **CF**  
Class | K | TC | DF | IR (Ω)  
1 | 24 | 0±15ppm | .6% | >10E6  
Tolerance: **P: ± 0.01pF**  
Termination: **P: TW/NiV/Au (Sputter plated)**  
Test Code: **X: Commercial**

**Part Number: D10 CF 0R1 B 5 P X**

Series Model		Series/Parallel Model	
Rs(Ω)	0.198	Rs(Ω)	0.198
Rp(KΩ)	122.4	Rp(KΩ)	122.4
Ls(nH)	0.028	Ls(nH)	0.039
C(pF)	0.20	Cs(pF)	0.15
Fs (GHz)	66.812	Cp(pF)	0.05
		Fs (GHz)	66.812
		Fp (GHz)	129.798

**Add Lead Inductance**  
Inductance (nH): 0.0  
Fs (GHz) 67.255

**Acceptable Temp Range -55 to 125 (°C)**  
Temp (°C) 25  
Frequency 1.000 (GHz)

Graphing Links: Series Shunt T-Line

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The data presented by CapCad™ is based off of calculated models and is a representation of typical performance. It should not be construed as a specification or guarantee of performance. Actual performance may vary slightly from application to application. For more info or support please feel free to contact us by phone at (315) 655-8710, or by email at sales@dilabs.com .