DCN
Super Capacitors

FEATURES	Very fast charge/discharge – High power density – IEC 62391 compliant – Circuit board mountable
APPLICATIONS	Battery backup/ alternative – Pulse power – Energy harvesting – LED Displays – Mechanical actuators – Audio systems

Operating Temperature Range		**-40°C to +60°C**		
Storage Temperature		-40°C to +70°C		
Capacitance Tolerance @ 20°C		+30%/-10% (Q tolerance), +20%/-20% (M tolerance) +10%/-10% (K tolerance), +50%/-20% (S tolerance)		
Voltage	**WVDC**	**2.7**	**5.5**	
	SVDC	**2.8**	**5.7**	
Maximum Current		**See standard part listing**		1 second discharge to ½ WVDC
Operating Current		**See standard part listing**		5 second discharge to ½ WVDC
Leakage Current		**See standard part listing**		72 hours,25°C
Life Time		**1000 hours with rated voltage applied at 60°C**		
	Capacitance change	±30% of initially measured values		
	ESR	≤200% of initially specified values		
	Leakage current	≤ specified maximum value		
Shelf Life		**1000 hours with no voltage applied at 60°C**		
	Capacitance change	±30% of initially measured values		
	ESR	≤200% of initially specified values		
Life Cycles (25°C) 1 cycle= Charge to WVDC for 20s, constant voltage charging for 10s, discharge to ½ WVDC for 20s, rest for 10 s		**500,000 cycles**		
	Capacitance change	±30% of initially measured values		
	ESR change	≤200% of initially specified values		

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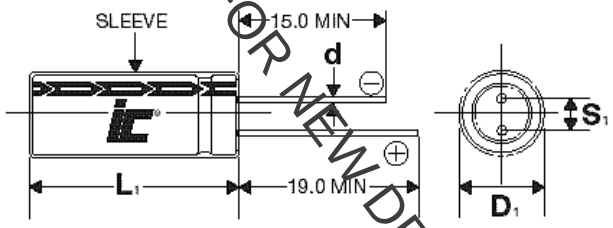
D <18mm

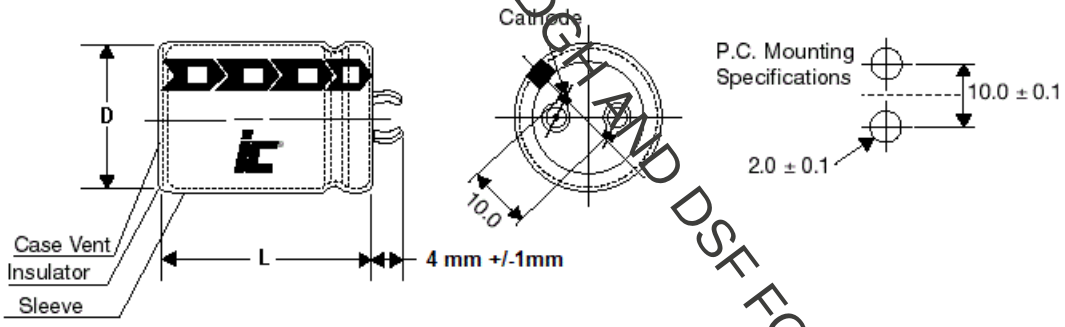


Lead spacing VS. Case diameter						
D	4	8(L<20)	8(L≥20)	10	16	18
S	1.5	3.5	3.5	5.0	7.5	7.5
d	0.45	0.5	0.6	0.6	0.8	0.8

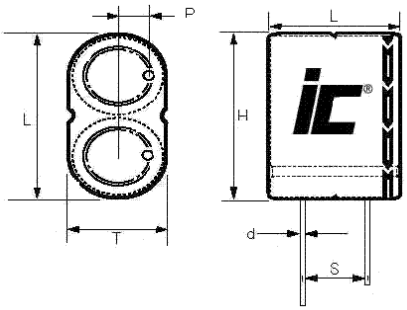
L_1=L(<20mm +1.5mm) (≥20mm +2.0mm)
D_1=D(<20mm +0.5mm) (≥20mm +1.0mm)
S_1=S±0.5mm

Snap in type

D≥20mm



5.5 Volt units



Capacitance (F)	Dims (LxHxT) (mm) +1.0mm	Lead spacing S (mm) +/-0.5mm	Lead diameter d (mm)	P (mm)
1	17.5x19.5x9	11.8	0.6	1.75
1.5	17.5x23.5x9	8.3	0.6	1.75
2	21.5x23.5x11	15.3	0.6	2.5
2.5	21.5x23.5x11	15.3	0.6	2.5

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