



FEATURES

High Voltage – Very Fast Charge/Discharge – High Power Density –
RoHS Compliant

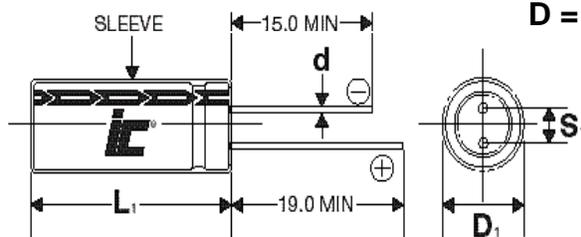
APPLICATIONS

Solar/Wind Energy Storage – Pulse Power – Energy Harvesting –
UPS Systems – Smart Electric Meters

Operating Temperature Range		-25°C to +60°C	
Storage Temperature		-40°C to +60°C	
Capacitance Tolerance @ 25°C		±20%	
Voltage (Vdc)	WVDC	3.8	3.8V
	SVDC	4.2	
	Minimum	2.2	
Life Time	1000 hours with rated voltage applied at 60°C		
	Capacitance change	±50% of initially measured values	
	ESR	<1000% of initially specified values	
	Leakage current	≤100% 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 / Discharge from 3.8~2.5VDC	250,000 cycles		
	Capacitance change	±30% of initially measured values	
	ESR change	<200% of initially specified values	

[RoHS Compliant](#)

810a Recognized



D = 10 to 16mm

Lead spacing VS. Case diameter			
D	10	12.5	16
S	5.0	5.0	7.5
d	0.6	0.6	0.8
α	2.0	2.0	2.0

$L_1 = L + \alpha$ mm
 $D_1 = D + 0.5$ mm
 $S_1 = S \pm 0.5$ mm

Notes:

- Maintain balanced voltages when used in multiple series or parallel connections. (Consult CDE engineering for guidance)
- When using metal tooling, trim and bend leads separately. Parts store a charge. Avoid shorting leads. (Consult CDE engineering for guidance)
- Manual soldering temperature should not exceed 350°C and soldering time should not exceed 4 seconds. (Wave and reflow soldering not recommended)

[Full Material Handling Guidelines](#)

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VPF

High pulse power, extends
battery life

WVDC	Capacitance (F)	IC PART NUMBER	Weight (grams)	Volume (mL)	Dims DxL LxHxT (mm)	Lead Spacing S (mm)	Lead Diameter d (mm)
3.8	40.0	VPF406M3R8	2.5	1.26	10x16	5	0.6
3.8	50.0	VPF506M3R8	2.1	1.57	10x20	5	0.6
3.8	70.0	VPF706M3R8	2.3	1.96	10x25	5	0.6
3.8	120.0	VPF127M3R8	3.91	3.07	12.5x25	5	0.6
3.8	220.0	VPF227M3R8	7	5.03	16x25	7.5	0.8

WVDC	Capacitance (F)	IC PART NUMBER	MAX Current (A) (1 Sec.)	Maximum Continuous Current (A) ($\Delta T=15^{\circ}C$)	Short Circuit Current (A)	ESR AC 1 kHz (m Ω)	DC ESR (m Ω) 20°C	Max stored energy (mWh)	LC (μA), (72 hrs)
3.8	40.0	VPF406M3R8	1	0.15	6.9	250	550	53	4
3.8	50.0	VPF506M3R8	2.8	0.5	8.4	200	450	57	6
3.8	70.0	VPF706M3R8	4.9	0.7	15.2	100	250	80	8
3.8	120.0	VPF127M3R8	6.2	1.2	19	80	200	137	12
3.8	220.0	VPF227M3R8	12.4	2.2	38	60	100	253	25

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