Type SPA Solid Polymer Aluminum SMT Capacitors



- + Ultra-Low ESR 5 $\textbf{m}\Omega$ to 9 $\textbf{m}\Omega$ @ 100 kHz
- High Ripple current up to 4.0 Arms at 100 kHz
- Long Life No dry out failure related mechanism
- Stable Impedance and ESR vs. Temperature
- Great for bulk storage and ripple filtering
- Ignition free

Applications

Motherboard By-Pass Switching Supply Input/Output Filters Power Supply Decoupling

High Frequency Noise Reduction

Laptop LCD Displays

Automotive Digital Equipment

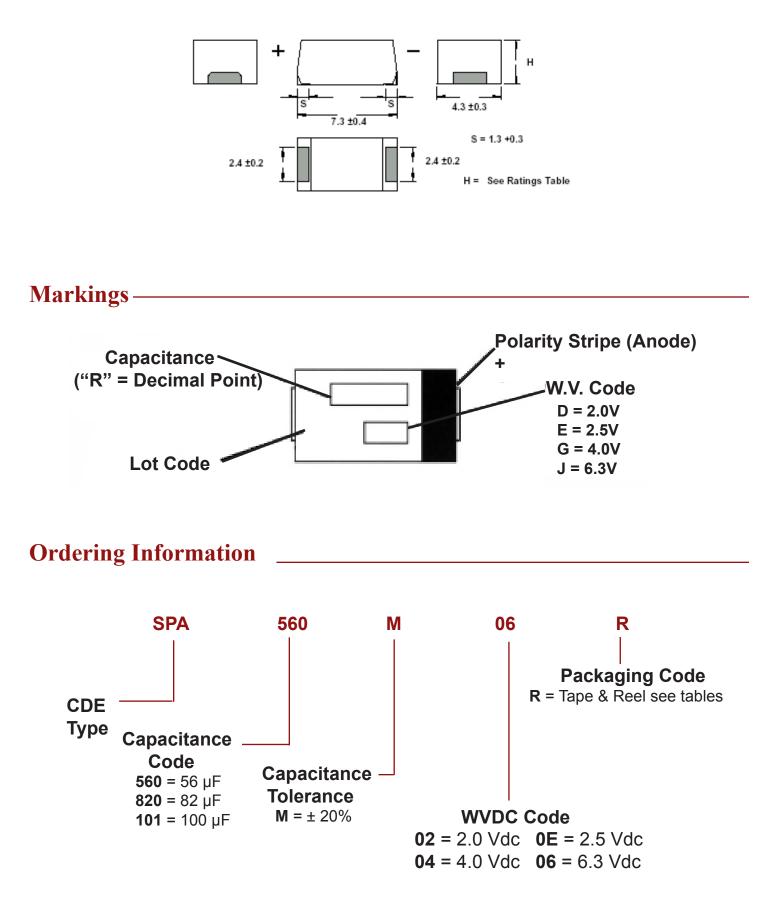
Portable Electronic Equipment

Specifications-

Operating Temperature:	-40 °C to +105 °C		
Rated Voltage:	2 Vdc to 6.3 Vdc		
Surge Voltage:	1.25 x Rated Voltage		
Capacitance Range:	56 μF to 470 μF		
Capacitance Tolerance:	±20% @120 Hz, +20 °C		
Dissipation Factor:	0.06 max (1.8/1.9); 0.10 max (2.8/4.2)		
	(Case "H" mm; 120 Hz +20 °C		
DC Leakage Current:	I ≤ 0.06 CV after 2 minutes		
Load Life:	1000 h @ 105 °C		
	Δ Capacitance: ±10% of the initial		
	measured value		
	D.F. \leq Initial specified value		
	DCL \leq Initial specified value		

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Outline Drawing



Ratings

		Maximum	Maximum	Case			
Capacitance	Catalog	E.S.R.	Ripple Current	Height			
(μF)	Part Number	100 kHz/20 °C	100 kHz/105 °C	н	Qty/Reel		
	(Tape & Reel)	(Ω)	(A _{rms})	(mm)			
2.0 Vdc							
120	SPA121M02R	0.009	3.0	1.8 ±.1	3500		
150	SPA151M02R	0.009	3.0	1.8 ±.1	3500		
180	SPA181M02R	0.009	3.0	1.9 ±.2	3500		
270	SPA271M02R	0.007	3.5	2.8 ±.2	2000		
330	SPA331M02R	0.007	3.5	2.8 ±.2	2000		
390	SPA391M02R	0.005	4.0	4.2 ±.1	2000		
470	SPA471M02R**	0.005	4.0	4.2 ±.1	2000		
2.5 Vdc							
100	SPA101M0ER	0.009	3.0	1.8 ±.1	3500		
120	SPA121M0ER	0.009	3.0	1.8 ±.1	3500		
150	SPA151M0ER	0.009	3.0	1.9 ±.2	3500		
220	SPA221M0ER	0.007	3.5	2.8 ±.2	2000		
270	SPA271M0ER	0.007	3.5	2.8 ±.2	2000		
330	SPA331M0ER	0.005	4.0	4.2 ±.1	2000		
390	SPA391M0ER	0.005	4.0	4.2 ±.1	2000		
4.0 Vdc							
82	SPA820M04R	0.009	3.0	1.8 ±.1	3500		
100	SPA101M04R	0.009	3.0	1.9 ±.2	3500		
150	SPA151M04R	0.007	3.5	2.8 ±.2	2000		
220	SPA221M04R	0.005	4.0	4.2 ±.1	2000		
6.3 Vdc							
56	SPA560M06R	0.009	3.0	1.8 ±.1	3500		
68	SPA680M06R	0.009	3.0	1.9 ±.2	3500		
120	SPA121M06R	0.007	3.5	2.8 ±.2	2000		
180	SPA181M06R	0.005	4.0	4.2 ±.1	2000		

Highlighted part numbers no longer available

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