imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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

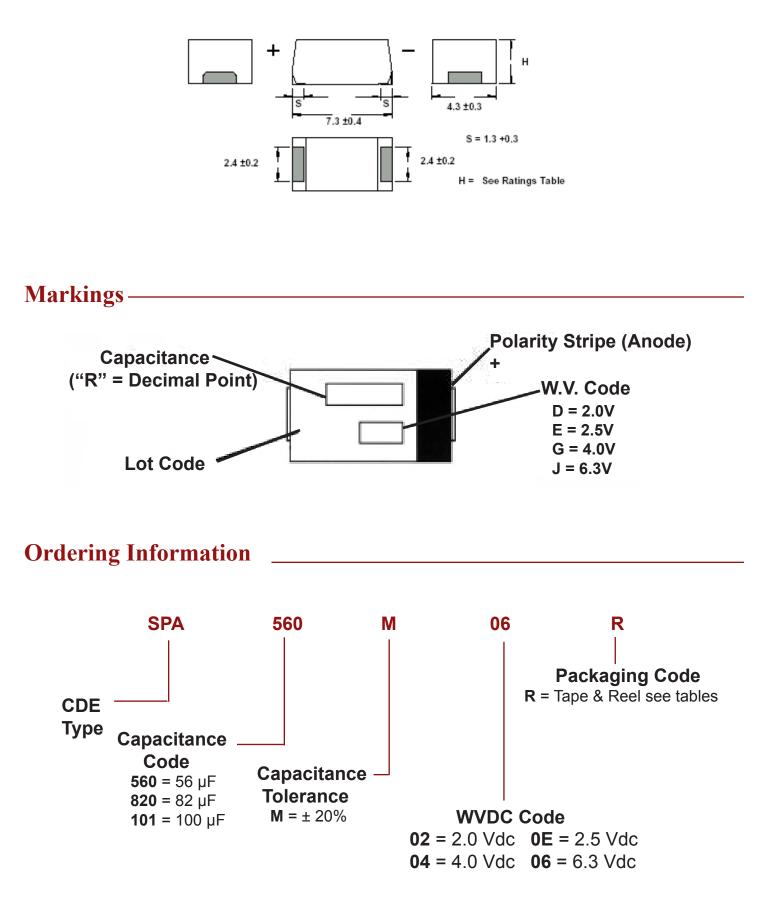
Portable Electronic Equipment

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			

Type SPA Solid Polymer Aluminum SMT Capacitors

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

Type SPA Solid Polymer Aluminum SMT Capacitors

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