

SXB/SXE SERIES
SLE/SZE SERIES

SXB:Standard
 SXE:Low ESR
 SLE:Low Profile, Low ESR
 SZE:Low Profile, Ultra Low ESR

◆FEATURES

- Lead free reflow soldering is available.
 (260°C,10sec):(Available for IPC/JEDEC J-STD-020D:MSL3)
- RoHS compliance.


◆SPECIFICATIONS

Series	SXB	SXE	SLE	SZE						
	1.9mm		1.4mm							
Category Temperature Range	-55~+105°C									
Rated Voltage Range(Vdc)	2~10	2~6.3	2~6.3	2, 2.5						
Capacitance Range(μF)	22~220	33~220	47~100	100~150						
Capacitance Tolerance(20°C , 120Hz)	±20%									
Leakage Current(μA/after 5 minutes)	≤0.04CV									
(tanδ) Dissipation Factor(20°C , 120Hz)	≤0.1									
Equivalent Series Resistance(ESR) (mΩ/20°C , 100kHz)	13~30	9	9	5						
Multiplier for Ripple Current	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">≤45°C</td> <td style="text-align: center;">45°C<T≤85°C</td> <td style="text-align: center;">85°C<T≤105°C</td> </tr> <tr> <td style="text-align: center;">1.0</td> <td style="text-align: center;">0.7</td> <td style="text-align: center;">0.25</td> </tr> </table> <p style="text-align: center;">T=Ambient Temperature</p>				≤45°C	45°C<T≤85°C	85°C<T≤105°C	1.0	0.7	0.25
≤45°C	45°C<T≤85°C	85°C<T≤105°C								
1.0	0.7	0.25								
Surge Voltage	Rated voltage ×1.25									
Endurance (105°C, 2000hrs, Rated Voltage applied)	ΔC	Within ±20% of the initial value								
	tanδ	≤200% of initial specified value								
	LC	≤initial specified value								
Damp heat(Steady state) (60°C, 90%RH, 500hrs, No-applied voltage)	ΔC	Within -20~+40% of the initial value		Within -20~+60% of the initial value						
	tanδ	≤200% of initial specified value								
	LC	≤300% of initial specified value								

Our website offers the SPICE model (netlist) of PC-CON as the data for simulations. Please make use of various circuit design.

For automotive use (AEC-Q200), please inquire our sales offices.

◆ITEM

Series	(Vdc)	Capacitance(μ F)	Size(mm)			ESR (m Ω)	Rated ripple current (mA r.m.s./45 $^{\circ}$ C, 100kHz)	Part No.
			L	W	H			
SXB	2	100	7.3	4.3	1.9	13	5,400	2SXB100M
		150	7.3	4.3	1.9	13	5,400	2SXB150M
		220	7.3	4.3	1.9	13	5,400	2SXB220M
	2.5	100	7.3	4.3	1.9	13	5,400	2.5SXB100M
		120	7.3	4.3	1.9	13	5,400	2.5SXB120M
		150	7.3	4.3	1.9	13	5,400	2.5SXB150M
		180	7.3	4.3	1.9	13	5,400	2.5SXB180M
	4	220	7.3	4.3	1.9	13	5,400	2.5SXB220M
		68	7.3	4.3	1.9	13	5,400	4SXB68M
		100	7.3	4.3	1.9	13	5,400	4SXB100M
	6.3	150	7.3	4.3	1.9	13	5,400	4SXB150M
		22	7.3	4.3	1.9	13	5,400	6SXB22M
		33	7.3	4.3	1.9	13	5,400	6SXB33M
		47	7.3	4.3	1.9	13	5,400	6SXB47M
		68	7.3	4.3	1.9	13	5,400	6SXB68M
	8	100	7.3	4.3	1.9	18	4,700	6SXB100M
		33	7.3	4.3	1.9	18	4,700	8SXB33M
	10	47	7.3	4.3	1.9	18	4,700	8SXB47M
		22	7.3	4.3	1.9	30	3,700	10SXB22M
SXE	2	100	7.3	4.3	1.9	9	6,300	2SXE100M
		150	7.3	4.3	1.9	9	6,300	2SXE150M
		180	7.3	4.3	1.9	9	6,300	2SXE180M
		220	7.3	4.3	1.9	9	6,300	2SXE220M
	2.5	100	7.3	4.3	1.9	9	6,300	2.5SXE100M
		120	7.3	4.3	1.9	9	6,300	2.5SXE120M
		150	7.3	4.3	1.9	9	6,300	2.5SXE150M
		180	7.3	4.3	1.9	9	6,300	2.5SXE180M
		220	7.3	4.3	1.9	9	6,300	2.5SXE220M
	4	68	7.3	4.3	1.9	9	6,300	4SXE68M
		82	7.3	4.3	1.9	9	6,300	4SXE82M
		100	7.3	4.3	1.9	9	6,300	4SXE100M
		120	7.3	4.3	1.9	9	6,300	4SXE120M
		150	7.3	4.3	1.9	9	6,300	4SXE150M
	6.3	33	7.3	4.3	1.9	9	6,300	6SXE33M
		47	7.3	4.3	1.9	9	6,300	6SXE47M
		68	7.3	4.3	1.9	9	6,300	6SXE68M
		100	7.3	4.3	1.9	9	6,300	6SXE100M
	SLE	2	100	7.3	4.3	1.4	9	6,300
2.5		82	7.3	4.3	1.4	9	6,300	2.5SLE82M
4		68	7.3	4.3	1.4	9	6,300	4SLE68M
6.3		47	7.3	4.3	1.4	9	6,300	6SLE47M
SZE	2	100	7.3	4.3	1.4	5	8,100	2SZE100M
		150	7.3	4.3	1.4	5	8,100	2SZE150M
	2.5	100	7.3	4.3	1.4	5	8,100	2.5SZE100M
		120	7.3	4.3	1.4	5	8,100	2.5SZE120M