



◆ PRODUCT LIST

SL / SLE SERIES

() : E.S.R. mΩ

WV(V.DC) Cap (μ F)	2V	2.5V	4V	6.3V	8V
10				SL(50)	
15					SLE(13)
33				SLE(10)	
47				SLE(10)	
68			SLE(10)		
82		SLE(9)			
100	SLE(9)				

SXB / SXE SERIES

() : E.S.R. mΩ

WV(V.DC) Cap (μ F)	2V	2.5V	4V	6.3V	8V
15					SXB(15)
22				SXB(13)	
33			SXB(13)	SXB(13) SXE(10)	
47				SXB(13) SXE(10)	
68			SXB(13) SXE(10)	SXE(10)	
82		SXB(13) SXE(9)	SXE(10)	SXE(10)	
100	SXB(13) SXE(9)	SXE(9)	SXE(10)	SXE(10)	
120	SXE(9)	SXE(9)	SXE(10)		
150	SXE(9)	SXE(9)	SXE(10)		
180	SXE(9)	SXE(9)			
220	SXE(9)				

SW SERIES

() : E.S.R. mΩ

WV(V.DC) Cap (μ F)	2V		2.5V		4V		6.3V		8V
	2.7mm	2.9mm	2.7mm	2.9mm	2.7mm	2.9mm	2.7mm	2.9mm	2.7mm
33									SW(13)
100							SW(10)		
120								SW(9)	
150					SW(10)			SW(9)	
180			SW(10)			SW(9)			
220	SW(10)			SW(9)		SW(9)			
270		SW(9)		SW(9)		SW(9)			
330		SW(9)		SW(9)					
390		SW(9)							

◆ SPECIFICATIONS

- RoHS compliance
- Pb Free and compatible with reflow soldering (250°C, 5sec):(Available for MSL3)

Series	SL	SLE	SXB	SXE	SW	
					2.7mm	2.9mm
Category Temperature Range (°C)	- 55 ~ +105°C					
Rated Voltage Range (V. DC)	6.3	2 ~ 8	2 ~ 8	2 ~ 6.3	2 ~ 8	2 ~ 6.3
Rated Cap. Range (μF)	10	15 ~ 100	15 ~ 100	33 ~ 220	33 ~ 220	120 ~ 390
Capacitance Tolerance (20°C/120Hz)	± 20%					
Leakage Current (after 5 minutes) (μA)	≤ 0.04CV					
Dissipation Factor (20°C/120Hz) (tanδ)	≤ 0.05				≤ 0.1	
Equivalent Series Resistance (E.S.R.) (m Ω) (20°C/100kHz)	≤ 50	≤ 10 ≤ 13 (8V)	≤ 13 ≤ 15 (8V)	≤ 10	≤ 10 ≤ 13 (8V)	≤ 9
Maximum Permissible Ripple Current (mA r.m.s)(100kHz)	1900	3000	3000		3500 3000 (8V)	
Surge Voltage	Rated voltage × 1.3					
Endurance (+105°C, 2000hrs, Rated voltage applied) (20°C)	ΔC/C	Within ±20% of the initial value				
	tan δ	≤ 150%	≤ 200% of initial specified value			≤ 150%
	LC	≤ initial specified value				
Damp heat (Steady state) (+60°C, 90 to 95%RH, 500hrs, No-applied voltage) (20°C)	ΔC/C	Within - 20 ~ + 40% of the initial value				
	tan δ	≤ 150%	≤ 200% of initial specified value			≤ 150%
	LC	≤ 500%	≤ 300% of initial specified value			