



**THE DATASHEET OF
SLPX222M080A7P3**



Type SLPX 85 °C Snap-In Aluminum Electrolytic

Best Value 85 °C Snap-In Type



Type SLPX is the best value package snap-in series for 85 °C, 3000 h operation. This series is the most cost-effective choice for DC filtering and power supply applications where long life and high ripple capability are needed.

Highlights

- 3000 h ripple load life at rated voltage
- 85 °C rated
- Small case size with high capacitance
- Best for switching power supplies
- 22 mm to 35 mm diameter, 10 mm lead spacing
- Great value snap-in type
- High ripple current

Specifications

Temperature Range	-40 °C to +85 °C ≤ 250 Vdc -25 °C to +85 °C ≥ 315 Vdc																							
Rated Voltage Range	10 Vdc to 450 Vdc																							
Capacitance Range	68 μF to 82,000 μF																							
Capacitance Tolerance	±20%																							
Leakage Current	≤ 3 \sqrt{CV} μA at 5 minutes																							
Ripple Current Multipliers	<p>Ambient Temperature</p> <table border="1"> <thead> <tr> <th>20 °C - 45 °C</th> <th>55 °C</th> <th>65 °C - 75 °C</th> <th>85 °C</th> </tr> </thead> <tbody> <tr> <td>1.58</td> <td>1.41</td> <td>1.22</td> <td>1.00</td> </tr> </tbody> </table> <p>Frequency</p> <table border="1"> <thead> <tr> <th>Voltage</th> <th>60 Hz</th> <th>120 Hz</th> <th>1 kHz</th> <th>10 kHz & Up</th> </tr> </thead> <tbody> <tr> <td>10 - 100 Vdc</td> <td>0.90</td> <td>1.00</td> <td>1.15</td> <td>1.25</td> </tr> <tr> <td>160 - 450 Vdc</td> <td>0.80</td> <td>1.00</td> <td>1.15</td> <td>1.47</td> </tr> </tbody> </table> <p>To apply multipliers, see ratings tables for ripple current values</p>	20 °C - 45 °C	55 °C	65 °C - 75 °C	85 °C	1.58	1.41	1.22	1.00	Voltage	60 Hz	120 Hz	1 kHz	10 kHz & Up	10 - 100 Vdc	0.90	1.00	1.15	1.25	160 - 450 Vdc	0.80	1.00	1.15	1.47
20 °C - 45 °C	55 °C	65 °C - 75 °C	85 °C																					
1.58	1.41	1.22	1.00																					
Voltage	60 Hz	120 Hz	1 kHz	10 kHz & Up																				
10 - 100 Vdc	0.90	1.00	1.15	1.25																				
160 - 450 Vdc	0.80	1.00	1.15	1.47																				
Low Temperature Characteristics	Impedance ratio: $Z_{-20°C} / Z_{+25°C}$ ≤ 10 (10 Vdc) ≤ 8 (16-50 Vdc) ≤ 4 (63-100 Vdc) ≤ 3 (150-450 Vdc)																							
Endurance Life	3,000 h @ full load @ 85 °C Δ Capacitance ±20% ESR ≤ 200% of limit DCL 100 % of limit																							
Shelf Life	1,000 h @ 85 °C Δ Capacitance ±15% ESR ≤ 150% of limit DCL 100 % of limit																							
Vibration	10 Hz to 55 Hz 0.06" and 10g max 2 h in each plane																							
Regulatory Information																								

Type SLPX 85 °C Snap-In Aluminum Electrolytic

Best Value 85 °C Snap-In Type

Part Numbering System

SLPX	562	M	025	A1	P	3	A
Type	Cap	Tolerance	Voltage	Case Code	Polarity	Insulating Sleeve	Pin Style
SLPX	821 = 820 µF 332 = 3300 µF 103 = 10,000 µF	M = ±20%	025 = 25 Vdc 250 = 250 Vdc		P = Polarized	3 = PVC or PET (PET after 12/19)	Blank = 2 pins snap-in 6.3 mm L A = 2 pins snap-in 4.0 mm L

Diameter	Length					
	25	30	35	40	45	50
mm (in)	(1.00)	(1.18)	(1.38)	(1.57)	(1.77)	(2.00)
22 (0.87)	A1	A3	A5	A7	A4	A9
25 (1.00)	C1	C3	C5	C7	C4	C9
30 (1.18)	E1	E3	E5	E7	E4	E9
35 (1.38)	H1	H3	H5	H7	H4	H9

Outline Drawing



PC Board Mounting Holes

Ratings

Cap (µF)	3000 h @ 85 °C Catalog Part Number	Max 25 °C ESR (Ω) 120 Hz 20kHz	Max 85 °C Ripple (A _{rms}) 120 Hz 20kHz	Nominal Size (DxL) (mm)
10 Vdc (13 Vdc Surge)				
12000	SLPX123M010A1P3	0.061 0.046	2.41 3.01	22 x 25
15000	SLPX153M010A3P3	0.049 0.037	2.88 3.60	22 x 30
15000	SLPX153M010C1P3	0.049 0.037	2.88 3.60	25 x 25
18000	SLPX183M010A5P3	0.041 0.031	3.22 4.03	22 x 35
18000	SLPX183M010C3P3	0.041 0.031	3.08 3.85	25 x 30
22000	SLPX223M010A7P3	0.033 0.025	3.79 4.74	22 x 40
22000	SLPX223M010C3P3	0.033 0.025	3.66 4.58	25 x 30
22000	SLPX223M010E1P3	0.033 0.025	3.53 4.41	30 x 25
27000	SLPX273M010A4P3	0.027 0.020	4.04 5.05	22 x 45
27000	SLPX273M010C5P3	0.027 0.020	4.04 5.05	25 x 35
27000	SLPX273M010E3P3	0.027 0.020	3.99 4.99	30 x 30
33000	SLPX333M010A9P3	0.022 0.017	4.58 5.73	22 x 50
33000	SLPX333M010C7P3	0.022 0.017	4.56 5.70	25 x 40
33000	SLPX333M010E3P3	0.022 0.017	4.58 5.73	30 x 30
39000	SLPX393M010C4P3	0.019 0.014	5.29 6.61	25 x 45
39000	SLPX393M010E5P3	0.019 0.014	5.21 6.51	30 x 35
39000	SLPX393M010H3P3	0.019 0.014	5.50 6.88	35 x 30
47000	SLPX473M010C9P3	0.016 0.012	5.78 7.23	25 x 50
47000	SLPX473M010E7P3	0.016 0.012	5.78 7.23	30 x 40
47000	SLPX473M010H5P3	0.016 0.012	5.55 6.94	35 x 35
56000	SLPX563M010E4P3	0.013 0.010	6.59 8.24	30 x 45
56000	SLPX563M010H5P3	0.013 0.010	6.40 8.00	35 x 35

Additional Voltages and Sizes available at www.cde.com/catalogs/SLPX.pdf

Cap (µF)	3000 h @ 85 °C Catalog Part Number	Max 25 °C ESR (Ω) 120 Hz 20kHz	Max 85 °C Ripple (A _{rms}) 120 Hz 20kHz	Nominal Size (DxL) (mm)
10 Vdc (13 Vdc Surge)				
68000	SLPX683M010E9P3	0.011 0.008	7.50 9.38	30 x 50
68000	SLPX683M010H7P3	0.011 0.008	7.48 9.35	35 x 40
82000	SLPX823M010H9P3	0.009 0.007	8.50 10.63	35 x 50
16 Vdc (20 Vdc Surge)				
8200	SLPX822M016A1P3	0.081 0.061	2.56 3.20	22 x 25
10000	SLPX103M016A3P3	0.066 0.050	2.89 3.61	22 x 30
12000	SLPX123M016A3P3	0.055 0.041	3.13 3.91	22 x 30
12000	SLPX123M016C1P3	0.055 0.041	3.01 3.76	25 x 25
15000	SLPX153M016A5P3	0.044 0.033	3.69 4.61	22 x 35
15000	SLPX153M016C3P3	0.044 0.033	3.64 4.55	25 x 30
15000	SLPX153M016E1P3	0.044 0.033	3.73 4.66	30 x 25
18000	SLPX183M016A7P3	0.037 0.028	3.98 4.98	22 x 40
18000	SLPX183M016C5P3	0.037 0.028	3.98 4.98	25 x 35
18000	SLPX183M016E3P3	0.037 0.028	3.88 4.85	30 x 30
22000	SLPX223M016A9P3	0.030 0.023	4.52 5.65	22 x 50
22000	SLPX223M016C7P3	0.030 0.023	4.44 5.55	25 x 40
22000	SLPX223M016E3P3	0.030 0.023	4.38 5.48	30 x 30
27000	SLPX273M016C4P3	0.025 0.019	4.98 6.23	25 x 45
27000	SLPX273M016E5P3	0.025 0.019	4.95 6.19	30 x 35
27000	SLPX273M016H3P3	0.025 0.019	4.82 6.03	35 x 30
33000	SLPX333M016C9P3	0.020 0.015	5.49 6.86	25 x 50
33000	SLPX333M016E7P3	0.020 0.015	5.60 7.00	30 x 40

Type SLPX 85 °C Snap-In Aluminum Electrolytic

Best Value 85 °C Snap-In Type

Typical Performance Curves



Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View SLPX222M080A7P3 on WIN SOURCE](#)
- ⊖ [Cornell Dubilier Electronics \(CDE\) Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management