

Screw Terminal Aluminum Electrolytic Capacitors

SWR Series



FEATURES

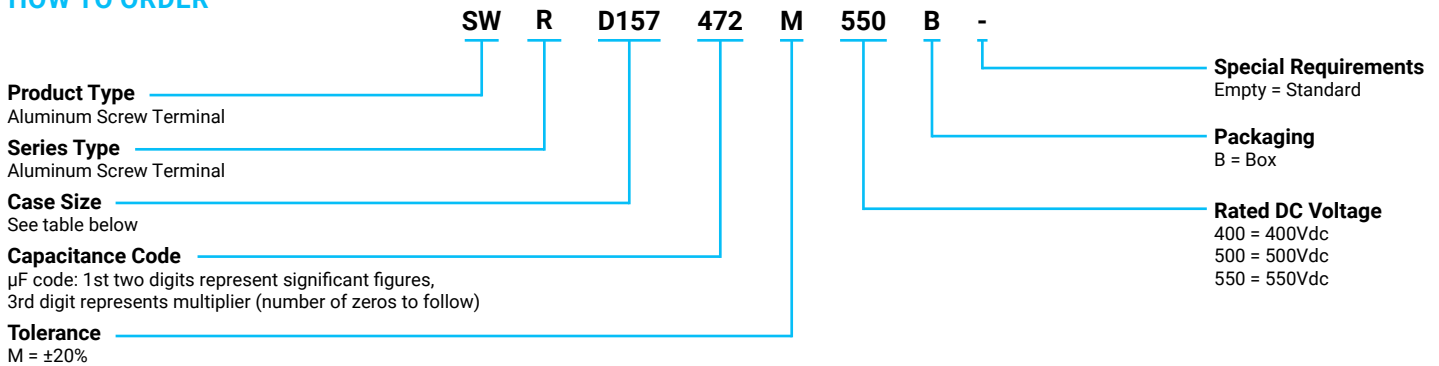
- Endurance: 2,000 hours
- Operating temperature: -25/+85°C
- High capacity per case size
- RoHS Compliance and Halogen-free
- High voltage



APPLICATIONS

- Frequency converters
- Power supplies
- Smoothing and filtering

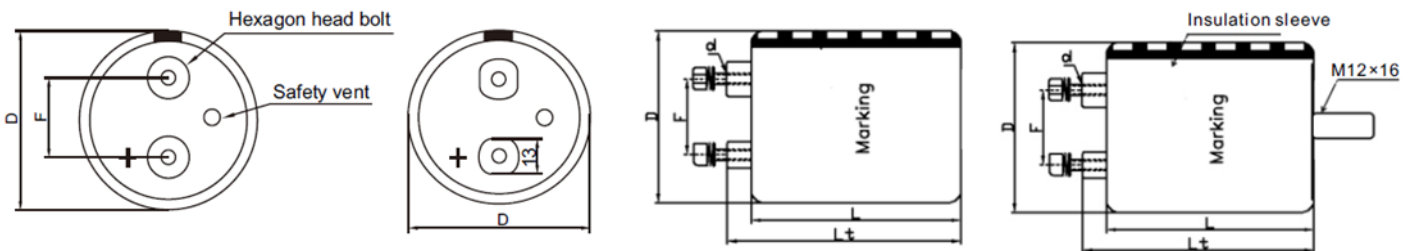
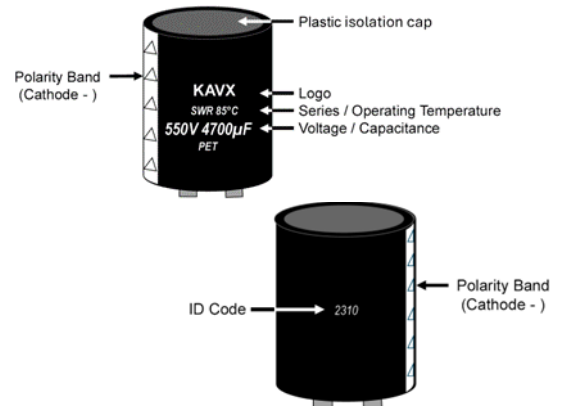
HOW TO ORDER



CASE DIMENSIONS millimeters (inches)

1st Character	D	F	d	2nd, 3rd, & 4th Character	L+3.00(0.118) Max.	Lt Max.
C	64.30 (2.531)	28.20 (1.110)	M5	105	105.00 (4.134)	112.50 (4.429)
				115	115.00 (4.528)	122.50 (4.823)
D	76.90 (3.028)	31.70 (1.248)	M5 or M6	130	130.00 (5.118)	137.50 (5.431)
				143	143.00 (5.630)	150.50 (5.925)
E	91.00 (3.583)	31.70 (1.248)	M5 or M6	150	150.00 (5.906)	157.50 (6.201)
				155	155.00 (6.102)	162.50 (6.398)
				157	157.00 (6.181)	164.50 (6.476)
				196	196.00(7.717)	203.50 (8.012)
				220	220.00 (8.661)	227.50 (8.957)

MARKING



TECHNICAL SPECIFICATIONS

Category Temperature Range:	-25°C to +85°C	
Capacitance Range:	At 25°C, 120Hz	1,500µF - 10,000µF
Capacitance Tolerance:	At 25°C, 120Hz	±20%
Dissipation Factor (%):	Measurement Frequency: 120Hz at 25°C	Please see the Ratings and Part Number Reference table below
Leakage Current:	After 5 minutes at rated working voltage at 25°C	Is0.02CV (µA) or 5mA, whichever is smaller

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CAPACITANCE AND RATED VOLTAGE RANGE (FIGURES DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R)		
μF	Code	400V	500V	550V
1500	152			C115
2200	222		C115	D105
2700	272		C130	D115
3300	332		D115	D130
3900	392	C130	D130, D143	D155
4700	472		D155	E157
5600	562	D130	E157	
6800	682	D130, D150		
10,000	103		E196, E220	

Released ratings

RATINGS & PART NUMBER REFERENCE

Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DF Max. @120Hz (%)	ESR Max. @ 120Hz (mΩ)	RMS Current @ 120Hz + 85°C (A)
400 Volt						
SWRC130392M400B	C130	3,900	400	20	47	7.50
SWRD130562M400B	D130	5,600	400	20	37	9.50
SWRD130682M400B	D130	6,800	400	20	35	17.20
SWRD150682M400B	D150	6,800	400	20	35	17.60
500 Volt						
SWRC115222M500B	C115	2,200	500	25	80	7.30
SWRC130272M500B	C130	2,700	500	25	64	8.50
SWRD115332M500B	D115	3,300	500	25	53	10.00
SWRD130392M500B	D130	3,900	500	25	47	11.40
SWRD143392M500B	D143	3,900	500	25	47	11.50
SWRD155472M500B	D155	4,700	500	25	40	13.30
SWRE157562M500B	E157	5,600	500	25	38	14.80
SWRE196822M500B	E196	8,200	500	25	26	18.10
SWRE220103M500B	E220	10,000	500	25	24	22.20
550 Volt						
SWRC115152M550B	C115	1,500	550	30	95	7.00
SWRD105222M550B	D105	2,200	550	30	78	8.10
SWRD115272M550B	D115	2,700	550	30	62	9.00
SWRD130332M550B	D130	3,300	550	30	51	10.50
SWRD155392M550B	D155	3,900	550	30	45	11.00
SWRE157472M550B	E157	4,700	550	30	38	12.90

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Rated Voltage (Vdc)	Frequency (Hz)				
	50Hz	120Hz	300Hz	1kHz	3kHz
400 - 550	0.80	1.00	1.10	1.30	1.40

QUALIFICATION TABLE

Test	SWR Series (Temperature Range -25°C to +85°C)		
	Condition	Characteristics	
Low Temperature Characteristics (Capacitance Ratio at 120Hz)	C(-25°C)/C(+20°C) ≥ 0.7		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for 2000 hours at 85°C.	ΔC/C	± 20% of the initial limit
		DF	≤ 200% of the initial specified limit
		DCL	≤ Initial specified limit
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied.	ΔC/C	± 20% of the initial limit
		DF	≤ 150% of the initial specified limit
		DCL	≤ 200% of the initial specified limit

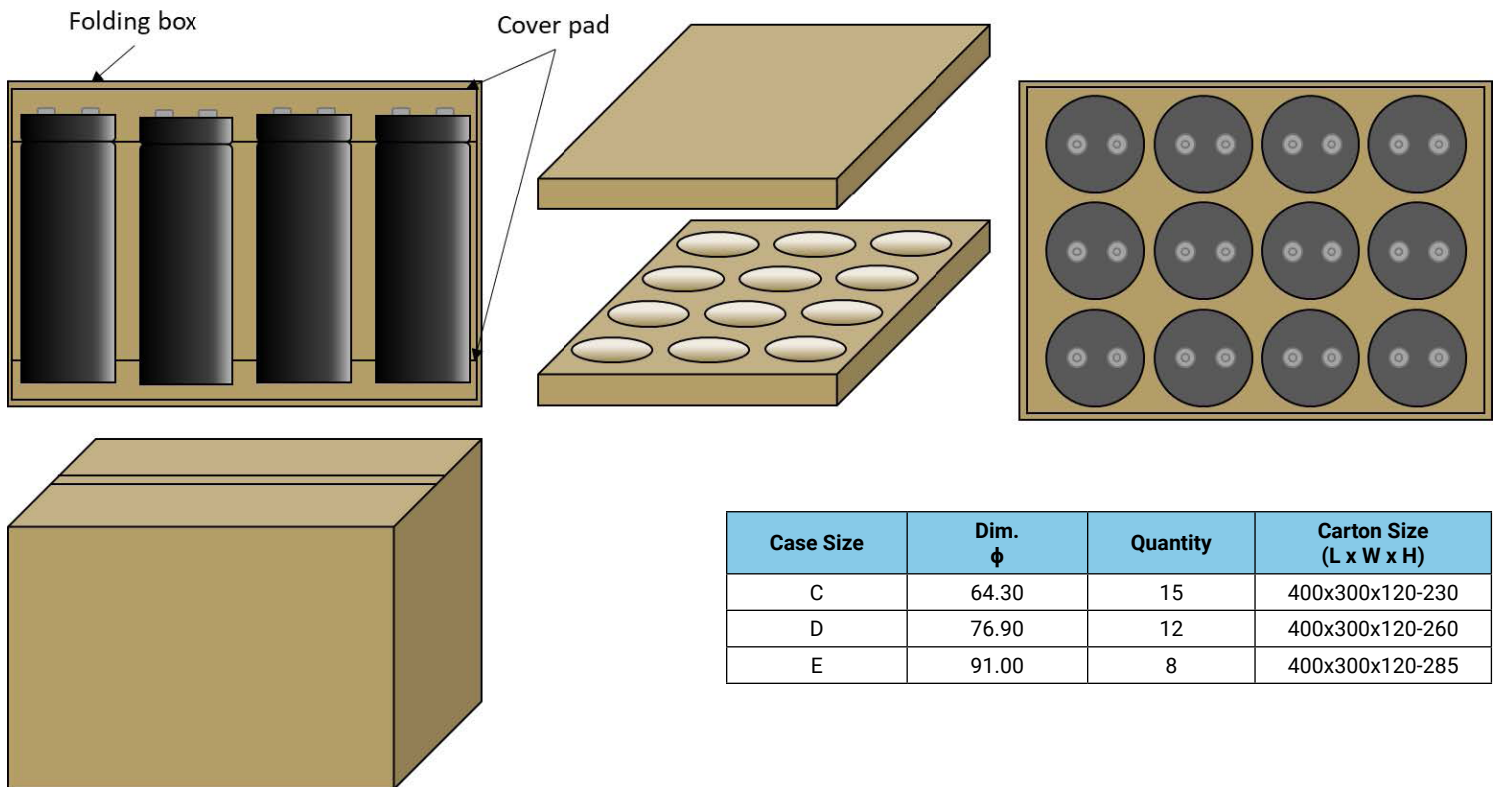
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STORAGE

1. It is recommended to keep capacitors between the ambient temperatures of 5°C to 35°C and a relative humidity of 75% or below.
2. Normally, the storage time of screw capacitors is 2 years. If not exceeding the storage time, the storage capacitors can be used directly. But for capacitor bank (bank of capacitors connected in parallel or in series or in combined parallel & series circuits), for safety reason, we recommend to check the leakage current of the capacitor when it has been stored for more than 6 months before using.
3. If storage time exceed three years, the products need to be discarded.
4. Avoid storing the capacitors under such circumstances:
 - a. With water and oil or damp & dewing location
 - b. With gas and oil.
 - c. With toxic gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, bromine and methyl bromide.
 - d. With direct sunlight, Ozone, ultraviolet rays or radiation.

PACKAGE TAPE DIMENSIONS



Case Size	Dim. ϕ	Quantity	Carton Size (L x W x H)
C	64.30	15	400x300x120-230
D	76.90	12	400x300x120-260
E	91.00	8	400x300x120-285