



## SVPF series characteristics list

| Size code | Part number | Rated voltage (V) | Rated capacitance (μF) | ESR(mΩ) (max)<br>100kHz to 300kHz/20℃ | Rated ripple current<br>100kHz (mA <sub>rms</sub> ) at 105℃ | DF (% max) | Leakage current (μA) (max)<br>After 2 minutes |
|-----------|-------------|-------------------|------------------------|---------------------------------------|-------------------------------------------------------------|------------|-----------------------------------------------|
| B6        | 25SVPF27MX  | 25                | 27                     | 40                                    | 2450                                                        | 12         | 135                                           |
|           | 20SVPF56MX  | 20                | 56                     | 30                                    | 2800                                                        | 12         | 224                                           |
|           | 16SVPF82M   | 16                | 82                     | 27                                    | 3000                                                        | 12         | 262                                           |
| C6        | 50SVPF10M   | 50                | 10                     | 40                                    | 2500                                                        | 12         | 100                                           |
|           | 35SVPF22M   | 35                | 22                     | 35                                    | 2600                                                        | 12         | 154                                           |
|           | 25SVPF47M   | 25                | 47                     | 30                                    | 2800                                                        | 12         | 235                                           |
|           | 25SVPF56M   | 25                | 56                     | 30                                    | 2800                                                        | 12         | 280                                           |
|           | 20SVPF120M  | 20                | 120                    | 25                                    | 3200                                                        | 12         | 480                                           |
|           | 16SVPF180M  | 16                | 180                    | 22                                    | 3300                                                        | 12         | 576                                           |
| E7        | 50SVPF18M   | 50                | 18                     | 35                                    | 2700                                                        | 12         | 180                                           |
|           | 35SVPF39M   | 35                | 39                     | 30                                    | 2800                                                        | 12         | 273                                           |
|           | 25SVPF82M   | 25                | 82                     | 28                                    | 3000                                                        | 12         | 410                                           |
|           | 25SVPF100M  | 25                | 100                    | 24                                    | 3200                                                        | 12         | 500                                           |
|           | 20SVPF180M  | 20                | 180                    | 25                                    | 3200                                                        | 12         | 720                                           |
|           | 16SVPF270M  | 16                | 270                    | 22                                    | 3300                                                        | 12         | 864                                           |
| E12       | 50SVPF39M   | 50                | 39                     | 25                                    | 3800                                                        | 12         | 390                                           |
|           | 35SVPF82M   | 35                | 82                     | 20                                    | 4000                                                        | 12         | 574                                           |
|           | 25SVPF180M  | 25                | 180                    | 16                                    | 4650                                                        | 12         | 900                                           |
|           | 20SVPF390M  | 20                | 390                    | 14                                    | 4950                                                        | 12         | 1560                                          |
|           | 16SVPF560M  | 16                | 560                    | 14                                    | 4950                                                        | 12         | 1792                                          |
| F12       | 50SVPF68M   | 50                | 68                     | 20                                    | 4300                                                        | 12         | 680                                           |
|           | 35SVPF120M  | 35                | 120                    | 18                                    | 4400                                                        | 12         | 840                                           |
|           | 25SVPF330M  | 25                | 330                    | 14                                    | 5000                                                        | 12         | 1650                                          |
|           | 20SVPF560M  | 20                | 560                    | 12                                    | 5400                                                        | 12         | 2240                                          |
|           | 16SVPF1000M | 16                | 1000                   | 12                                    | 5400                                                        | 12         | 3200                                          |

## Recommended land pattern dimension of PWB

The diagram illustrates the recommended land pattern dimensions for a PWB. It shows a rectangular pad with a stippled pattern. The dimensions are defined as follows: 'a' is the distance from the center of the pad to the edge of the land pattern; 'b' is the total width of the land pattern; and 'c' is the height of the land pattern. A vertical dashed line indicates the center of the pad.

| (unit : mm) |     |      |     |
|-------------|-----|------|-----|
| Size code   | a   | b    | c   |
| B6          | 1.4 | 7.4  | 1.6 |
| C6          | 2.1 | 9.1  | 1.6 |
| E7          | 2.8 | 11.1 | 1.9 |
| E12         | 2.8 | 11.1 | 1.9 |
| F12         | 4.3 | 13.1 | 1.9 |

## Frequency coefficient for ripple current

| Frequency   | 120Hz ≤ f < 1kHz | 1kHz ≤ f < 10kHz | 10kHz ≤ f < 100kHz | 100kHz ≤ f ≤ 500kHz |
|-------------|------------------|------------------|--------------------|---------------------|
| Coefficient | 0.05             | 0.3              | 0.7                | 1                   |