

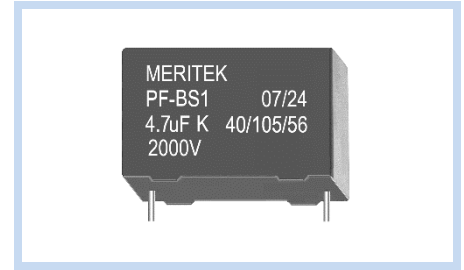
Power Film Capacitor, High Pulse THB Grad IIIB 1000Hours

PF-BS1 Series

MERITEK

FEATURE

- Double Metallized PP Film, Self-Healing Property
- High Voltage, High Ripple Current Capability
- Low Losses, High Frequency Performance
- Applications: Pulse Circuit, Switch-Mode Power Supply, Snubber, SCR and IGBT Modules, High Frequency AC Loads
- THB-2000H, 85°C, 85% RH, VR, 2000h
- AEC-Q200 Compliant



ELECTRICAL CHARACTERISTICS

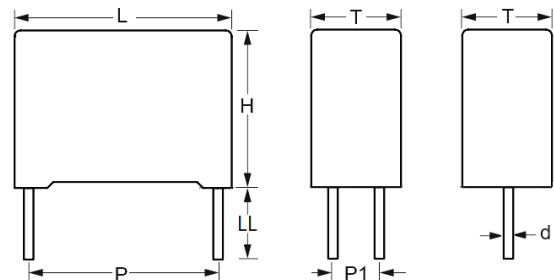
| Item | Characteristic | | | | |
|-------------------------|---|------------------|---|------------------|----------------------|
| Operating Temperature | -40~+105°C (85°C~+105°C Decreasing factor 1.25% per °C for Rated Voltage) | | | | |
| Capacitance Range | 0.001 μF~4.7 μF, ±5%(J), ±10%(K) at +25°C | | | | |
| Climatic Category | 40/105/56 IEC60068-1 | | | | |
| Dissipation Factor | 0.001, at 1KHz; at 25°C | | | | |
| DC/AC Operating Voltage | 630VDC / 400VAC | 1000VDC / 600VAC | 1300VDC / 620VAC | 1600VDC / 650VAC | 2000VDC / 700VAC |
| Max Ripple Current | 1.8~16A | 1.5~16A | 1.7~16A | 1.1~14A | 0.5~14A |
| Overvoltage | 110% of Vr | 115% | 120% | 130% | Max duration Per day |
| | 30% of On-Load | 30mins | 5mins | 1min | |
| Insulation Resistance | R > 100,000MΩ for C ≤ 0.33 μF | | Between leads, at 100 V, 60 sec | | |
| | RC > 30,000MΩ*μF for C > 0.33 μF | | Between leads, at 100 V, 60 sec | | |
| Withstanding Voltage | (1.5* VR) VDC for 10sec | | Between Terminal, at 25°C±5°C | | |
| | 3000VAC, for 60sec | | Between Terminal and Case, at 20 ±2°C | | |
| Self-inductance | <1nH | | per mm of lead spacing | | |
| Life Expectancy | 100,000 hours | | at hot spot temperature T _{HS} | | |

DIMENSIONS

| No of Pin | P ±0.5mm | d ±0.05mm | L±0.5mm |
|-----------|----------|-----------|---------|
| 2-pin | 15.0 | 0.8 | 18 |
| 2-pin | 22.5 | 0.8 | 26 |
| 2-pin | 27.5 | 0.8, 1.0 | 32 |
| 2-pin | 37.5 | 1.0 | 42 |

Note:

1. L±1.0mm, H±1mm, T±1mm, See the table below for dimension
2. LL Options: 3mm, 4mm, 5mm, 7mm, 15mm Min
3. Pitch Code: 15mm(1), 22.5mm(A), 27.5mm(2), 37.5mm(3)



PART NUMBERING SYSTEM

PF 684K 20 320 BS1 5
(1) (2) (3) (4) (5) (6)

| No | Item | Code | Description | |
|-----|-----------------------|------|--|--|
| (1) | Product Code | PF | Power Film Capacitor, Metallized PP Film | |
| (2) | Nominal Capacitance | 684K | 0.68 μF ±10%(K) | First two digits: Significant, Third: Multiplier |
| (3) | Rated DC Voltage Code | 20 | 20: 2000VDC | First two digits of Operating DC Voltage, V _{NDC} |
| (4) | Internal Code | 320 | 3: 37.5mm pitch, 2: 2pins, 0: Case Code | See the electrical specification table below |
| (5) | Series Code | BS1 | Pulse Capacitor Series, Box Type, THB-2000H, 85°C, 85% RH, VR, 2000h, AEC-Q200 | |
| (6) | Option Code | 5 | 5: LL 5mm Bulk package | Blank: LL: 15mm min, 4: LL 4mm, Bulk package |

ELECTRICAL SPECIFICATION – 630VDC (63)

| CAP (uF) | Dimensions (mm) | | | | | dv/dt (V/us) | Peak Current (A) | ESR 10KHz (mΩ) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------|-----------------|------|------|------|-----|-----------------|------------------------|----------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.010 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 30 | 62 | 12 | 1.8 | 2 | PF103%63120BS1x |
| 0.012 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 36 | 52 | 12 | 2.2 | 2 | PF123%63152BS1x |
| 0.015 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 45 | 42 | 12 | 2.5 | 2 | PF153%63152BS1x |
| 0.018 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 54 | 35 | 12 | 2.7 | 2 | PF183%63152BS1x |
| 0.020 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 60 | 32 | 12 | 2.8 | 2 | PF203%63152BS1x |
| 0.022 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3000 | 66 | 30 | 12 | 2.9 | 2 | PF223%63152BS1x |
| 0.027 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3000 | 81 | 25 | 12 | 3.2 | 2 | PF273%63152BS1x |
| 0.033 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3000 | 99 | 20 | 12 | 3.7 | 2 | PF333%63152BS1x |
| 0.039 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3000 | 117 | 16 | 12 | 3.9 | 2 | PF393%63152BS1x |
| 0.047 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 3000 | 141 | 15 | 12 | 4.5 | 2 | PF473%63152BS1x |
| 0.056 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 3000 | 168 | 14 | 12 | 4.6 | 2 | PF563%63152BS1x |
| 0.068 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 3000 | 204 | 13.5 | 12 | 4.7 | 2 | PF683%63152BS1x |
| 0.082 | 18.0 | 16.0 | 10 | 15.0 | 0.8 | 3000 | 246 | 13.2 | 12 | 4.8 | 2 | PF823%63152BS1x |
| 0.10 | 18.0 | 16.0 | 10 | 15.0 | 0.8 | 3000 | 300 | 13 | 12 | 5.0 | 2 | PF104%63152BS1x |
| 0.12 | 18.0 | 19.0 | 11.0 | 15.0 | 0.8 | 3000 | 360 | 12.5 | 12 | 5.4 | 2 | PF124%63152BS1x |
| 0.047 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 1500 | 70.5 | 20 | 15 | 3.8 | 2 | PF473%63222BS1x |
| 0.056 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 1500 | 84 | 19.5 | 15 | 4.0 | 2 | PF563%63222BS1x |
| 0.068 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 1500 | 102 | 19 | 15 | 4.2 | 2 | PF683%63222BS1x |
| 0.082 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 1500 | 123 | 18 | 15 | 4.5 | 2 | PF823%63222BS1x |
| 0.10 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 1500 | 150 | 16 | 15 | 5.0 | 2 | PF104%63222BS1x |
| 0.12 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 1500 | 180 | 14 | 15 | 5.3 | 2 | PF124%63222BS1x |
| 0.15 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 1500 | 225 | 11 | 15 | 6.0 | 2 | PF154%63222BS1x |
| 0.18 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 1500 | 270 | 10 | 15 | 6.5 | 2 | PF184%63222BS1x |
| 0.22 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 1500 | 330 | 8.5 | 15 | 7.5 | 2 | PF224%63222BS1x |
| 0.27 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 1500 | 405 | 6.5 | 15 | 8.5 | 2 | PF274%63222BS1x |
| 0.33 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 1500 | 495 | 6.0 | 15 | 9.0 | 2 | PF334%63222BS1x |
| 0.39 | 26.0 | 22.0 | 12 | 22.5 | 0.8 | 1500 | 585 | 5.0 | 15 | 10.0 | 2 | PF394%63222BS1x |
| 0.15 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 900 | 135 | 25 | 20 | 4.6 | 2 | PF154%63272BS1x |
| 0.18 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 900 | 162 | 22 | 20 | 4.8 | 2 | PF184%63272BS1x |
| 0.22 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | 900 | 198 | 20 | 20 | 5.0 | 2 | PF224%63272BS1x |
| 0.27 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 900 | 243 | 17.5 | 20 | 5.5 | 2 | PF274%63272BS1x |
| 0.33 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 900 | 297 | 16.5 | 20 | 5.8 | 2 | PF334%63272BS1x |
| 0.39 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 900 | 351 | 16.0 | 20 | 6.0 | 2 | PF394%63272BS1x |
| 0.47 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 423 | 14.0 | 20 | 6.5 | 2 | PF474%63272BS1x |
| 0.56 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 504 | 12.0 | 20 | 7.0 | 2 | PF564%63272BS1x |
| 0.68 | 32.0 | 24.5 | 13 | 27.5 | 0.8 | 900 | 612 | 10.5 | 20 | 7.5 | 2 | PF684%63272BS1x |
| 0.82 | 32.0 | 28.0 | 14 | 27.5 | 0.8 | 900 | 738 | 9.0 | 20 | 8.5 | 2 | PF824%63272BS1x |
| 1.0 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 900 | 900 | 7.0 | 20 | 10.0 | 2 | PF105%63272BS1x |
| 1.2 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 900 | 1080 | 6.0 | 20 | 13.0 | 2 | PF125%63272BS1x |
| 1.5 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 1350 | 5.0 | 20 | 15.0 | 2 | PF155%63272BS1x |
| 1.8 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 1620 | 4.0 | 20 | 16.0 | 2 | PF185%63272BS1x |
| 0.33 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 165 | 13.0 | 25 | 6.8 | 2 | PF334%63372BS1x |
| 0.47 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 235 | 12.5 | 25 | 7.0 | 2 | PF474%63372BS1x |
| 0.56 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 280 | 11.0 | 25 | 7.5 | 2 | PF564%63372BS1x |
| 0.68 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 340 | 10.5 | 25 | 8.0 | 2 | PF684%63372BS1x |
| 0.82 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 500 | 410 | 10.5 | 25 | 8.0 | 2 | PF824%63372BS1x |
| 1.0 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 500 | 500 | 10.0 | 25 | 8.5 | 2 | PF105%63372BS1x |
| 1.5 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 500 | 750 | 9.0 | 25 | 9.5 | 2 | PF155%63372BS1x |
| 1.8 | 42.0 | 32.0 | 19 | 37.5 | 1.0 | 500 | 900 | 8.5 | 25 | 10.5 | 2 | PF185%63372BS1x |
| 2.2 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 1100 | 8.0 | 25 | 11.5 | 2 | PF225%63372BS1x |
| 2.7 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 1350 | 7.0 | 25 | 13.0 | 2 | PF275%63372BS1x |
| 3.3 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 500 | 1650 | 6.0 | 25 | 14.0 | 2 | PF335%63372BS1x |
| 3.9 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 500 | 1950 | 5.0 | 25 | 15.0 | 2 | PF395%63372BS1x |
| 4.7 | 42.0 | 50.0 | 35 | 37.5 | 1.0 | 500 | 2350 | 4.0 | 25 | 16.0 | 2 | PF475%63372BS1x |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1000VDC (10)

| CAP (uF) | Dimensions (mm) | | | | | dv/dt (V/us) | Peak Current (A) | ESR 10KHz (mΩ) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------|-----------------|------|-----|------|-----|-----------------|------------------------|----------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.0082 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 28.7 | 80 | 10 | 1.5 | 2 | PF822%10152BS1x |
| 0.010 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 35 | 62 | 12 | 1.8 | 2 | PF103%10152BS1x |
| 0.012 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 42 | 52 | 12 | 2.2 | 2 | PF123%10152BS1x |
| 0.015 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 52.5 | 42 | 12 | 2.5 | 2 | PF153%10152BS1x |
| 0.018 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 63 | 35 | 12 | 2.7 | 2 | PF183%10152BS1x |
| 0.020 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3500 | 70 | 32 | 10 | 2.8 | 2 | PF203%10152BS1x |
| 0.022 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3500 | 77 | 29 | 10 | 3.0 | 2 | PF223%10152BS1x |
| 0.027 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 3500 | 94.5 | 24 | 12 | 3.5 | 2 | PF273%10152BS1x |
| 0.033 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 3500 | 115.5 | 19 | 12 | 4.0 | 2 | PF333%10152BS1x |
| 0.039 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 3500 | 136.5 | 16 | 12 | 4.5 | 2 | PF393%10152BS1x |
| 0.047 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 3500 | 164.5 | 14 | 12 | 4.9 | 2 | PF473%10152BS1x |
| 0.027 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 56.7 | 24 | 15 | 3.8 | 2 | PF273%10222BS1x |
| 0.033 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 69.3 | 19 | 15 | 4.3 | 2 | PF333%10222BS1x |
| 0.039 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 81.9 | 16 | 15 | 4.8 | 2 | PF393%10222BS1x |
| 0.047 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 2100 | 98.7 | 15 | 15 | 5.0 | 2 | PF473%10222BS1x |
| 0.056 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 2100 | 117.6 | 14.5 | 15 | 5.4 | 2 | PF563%10222BS1x |
| 0.068 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 2100 | 142.8 | 14 | 15 | 5.6 | 2 | PF683%10222BS1x |
| 0.082 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 2100 | 172.2 | 13.5 | 15 | 5.8 | 2 | PF823%10222BS1x |
| 0.10 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 2100 | 210 | 13 | 15 | 6.0 | 2 | PF104%10222BS1x |
| 0.12 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 1500 | 180 | 12.5 | 15 | 6.5 | 2 | PF124%10222BS1x |
| 0.15 | 26.0 | 22.0 | 12 | 22.5 | 0.8 | 1500 | 225 | 11 | 15 | 7.0 | 2 | PF154%10222BS1x |
| 0.10 | 32.0 | 17.0 | 8 | 27.5 | 0.8 | 900 | 90 | 25 | 20 | 4.5 | 2 | PF104%10272BS1x |
| 0.12 | 32.0 | 18.0 | 9 | 27.5 | 0.8 | 900 | 108 | 22 | 20 | 4.8 | 2 | PF124%10272BS1x |
| 0.15 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 900 | 135 | 21 | 20 | 5.0 | 2 | PF154%10272BS1x |
| 0.18 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 162 | 18 | 20 | 5.5 | 2 | PF184%10272BS1x |
| 0.22 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 198 | 14 | 20 | 6.0 | 2 | PF224%10272BS1x |
| 0.27 | 32.0 | 24.5 | 13 | 27.5 | 0.8 | 900 | 243 | 13.5 | 20 | 6.5 | 2 | PF274%10272BS1x |
| 0.33 | 32.0 | 28.0 | 14 | 27.5 | 0.8 | 900 | 297 | 12 | 20 | 7.0 | 2 | PF334%10272BS1x |
| 0.39 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 900 | 351 | 11 | 20 | 7.5 | 2 | PF394%10272BS1x |
| 0.47 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 900 | 423 | 10 | 20 | 8.0 | 2 | PF474%10272BS1x |
| 0.56 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 504 | 9 | 20 | 8.5 | 2 | PF564%10272BS1x |
| 0.68 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 612 | 8 | 20 | 9.5 | 2 | PF684%10272BS1x |
| 0.18 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 90 | 18 | 25 | 6.0 | 2 | PF184%10372BS1x |
| 0.22 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 110 | 14 | 25 | 6.5 | 2 | PF224%10372BS1x |
| 0.27 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 500 | 135 | 13 | 25 | 6.8 | 2 | PF274%10372BS1x |
| 0.33 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 500 | 165 | 12 | 25 | 7.2 | 2 | PF334%10372BS1x |
| 0.39 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 195 | 11.5 | 25 | 7.4 | 2 | PF394%10372BS1x |
| 0.47 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 235 | 11 | 25 | 7.6 | 2 | PF474%10372BS1x |
| 0.56 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 280 | 10.5 | 25 | 8.0 | 2 | PF564%10372BS1x |
| 0.68 | 42.0 | 32.0 | 19 | 37.5 | 1.0 | 500 | 340 | 10.0 | 25 | 8.5 | 2 | PF684%10372BS1x |
| 0.82 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 410 | 9.0 | 25 | 10.0 | 2 | PF824%10372BS1x |
| 1.0 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 500 | 7.0 | 25 | 11.0 | 2 | PF105%10372BS1x |
| 1.2 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 500 | 600 | 6.5 | 25 | 12.0 | 2 | PF125%10372BS1x |
| 1.5 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 500 | 750 | 6.0 | 25 | 13.0 | 2 | PF155%10372BS1x |
| 1.8 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 500 | 900 | 5.0 | 25 | 15.0 | 2 | PF185%10372BS1x |
| 2.2 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 500 | 1100 | 4.0 | 25 | 16.0 | 2 | PF225%10372BS1x |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1300VDC(13)

| CAP (uF) | Dimensions (mm) | | | | | dv/dt (V/us) | Peak Current (A) | ESR 10KHz (mΩ) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------|-----------------|------|------|------|-----|-----------------|------------------------|----------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.0082 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 28.7 | 95 | 10 | 1.7 | 2 | PF822%13152BS1x |
| 0.010 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 35 | 65 | 12 | 2.0 | 2 | PF103%13152BS1x |
| 0.012 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 42 | 52 | 12 | 2.2 | 2 | PF123%13152BS1x |
| 0.015 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 3500 | 52.5 | 42 | 12 | 2.5 | 2 | PF153%13152BS1x |
| 0.018 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3500 | 63 | 38 | 12 | 2.8 | 2 | PF183%13152BS1x |
| 0.020 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 3500 | 70 | 36 | 10 | 2.9 | 2 | PF203%13152BS1x |
| 0.022 | 18.0 | 13.0 | 7.0 | 15.0 | 0.8 | 3500 | 77 | 32 | 10 | 3.1 | 2 | PF223%13152BS1x |
| 0.027 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 3500 | 94.5 | 26 | 12 | 3.7 | 2 | PF273%13152BS1x |
| 0.033 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 3500 | 115.5 | 19 | 12 | 4.0 | 2 | PF333%13152BS1x |
| 0.039 | 18.0 | 16.0 | 9.0 | 15.0 | 0.8 | 3500 | 136.5 | 16 | 12 | 4.5 | 2 | PF393%13152BS1x |
| 0.047 | 18.0 | 16.0 | 10 | 15.0 | 0.8 | 3500 | 164.5 | 15 | 12 | 4.8 | 2 | PF473%13152BS1x |
| 0.056 | 18.0 | 19.0 | 11 | 15.0 | 0.8 | 3500 | 196 | 14 | 12 | 5.0 | 2 | PF563%13152BS1x |
| 0.027 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 56.7 | 24 | 15 | 3.5 | 2 | PF273%13222BS1x |
| 0.033 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 69.3 | 19 | 15 | 4.0 | 2 | PF333%13222BS1x |
| 0.039 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 2100 | 81.9 | 16 | 15 | 4.8 | 2 | PF393%13222BS1x |
| 0.047 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 2100 | 98.7 | 15 | 15 | 5.0 | 2 | PF473%13222BS1x |
| 0.056 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 2100 | 117.6 | 14.5 | 15 | 5.4 | 2 | PF563%13222BS1x |
| 0.068 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 2100 | 142.8 | 14 | 15 | 6.0 | 2 | PF683%13222BS1x |
| 0.082 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 2100 | 172.2 | 13.5 | 15 | 6.5 | 2 | PF823%13222BS1x |
| 0.10 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 2100 | 210 | 13 | 15 | 7.0 | 2 | PF104%13222BS1x |
| 0.12 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 1500 | 180 | 12.5 | 15 | 6.5 | 2 | PF124%13222BS1x |
| 0.15 | 26.0 | 22.0 | 12 | 22.5 | 0.8 | 1500 | 225 | 12 | 15 | 7.0 | 2 | PF154%13222BS1x |
| 0.18 | 26.0 | 24.5 | 13 | 22.5 | 0.8 | 1500 | 270 | 11 | 15 | 7.5 | 2 | PF184%13222BS1x |
| 0.22 | 26.0 | 29.5 | 14.5 | 22.5 | 0.8 | 1500 | 330 | 9.5 | 15 | 8.5 | 2 | PF224%13222BS1x |
| 0.1 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 900 | 90 | 19 | 20 | 5.8 | 2 | PF104%13272BS1x |
| 0.12 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | 900 | 108 | 18 | 20 | 6.2 | 2 | PF124%13272BS1x |
| 0.15 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 900 | 135 | 15 | 20 | 6.8 | 2 | PF154%13272BS1x |
| 0.18 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 162 | 14 | 20 | 7.0 | 2 | PF184%13272BS1x |
| 0.22 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 900 | 198 | 12 | 20 | 7.5 | 2 | PF224%13272BS1x |
| 0.27 | 32.0 | 24.0 | 14 | 27.5 | 0.8 | 900 | 243 | 11 | 20 | 8.0 | 2 | PF274%13272BS1x |
| 0.33 | 32.0 | 28.0 | 14 | 27.5 | 0.8 | 900 | 297 | 10 | 20 | 8.5 | 2 | PF334%13272BS1x |
| 0.39 | 32.0 | 30.0 | 16 | 27.5 | 0.8 | 900 | 351 | 9.5 | 20 | 9.0 | 2 | PF394%13272BS1x |
| 0.47 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 900 | 423 | 9 | 20 | 9.5 | 2 | PF474%13272BS1x |
| 0.56 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 504 | 8.5 | 20 | 10.0 | 2 | PF564%13272BS1x |
| 0.68 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 900 | 612 | 8.0 | 20 | 11.0 | 2 | PF684%13272BS1x |
| 0.18 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 90 | 19 | 25 | 5.8 | 2 | PF184%13372BS1x |
| 0.22 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 500 | 110 | 18 | 25 | 6.0 | 2 | PF224%13372BS1x |
| 0.27 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 500 | 135 | 16.5 | 25 | 6.2 | 2 | PF274%13372BS1x |
| 0.33 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 500 | 165 | 15 | 25 | 6.5 | 2 | PF334%13372BS1x |
| 0.39 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 195 | 13 | 25 | 7.4 | 2 | PF394%13372BS1x |
| 0.47 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 235 | 12.5 | 25 | 7.6 | 2 | PF474%13372BS1x |
| 0.56 | 42.0 | 28.0 | 17 | 37.5 | 1.0 | 500 | 280 | 11.5 | 25 | 8.5 | 2 | PF564%13372BS1x |
| 0.68 | 42.0 | 32.0 | 19 | 37.5 | 1.0 | 500 | 340 | 11 | 25 | 9.0 | 2 | PF684%13372BS1x |
| 0.82 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 410 | 9.0 | 25 | 10.0 | 2 | PF824%13372BS1x |
| 1.0 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 500 | 500 | 8.0 | 25 | 11.5 | 2 | PF105%13372BS1x |
| 1.2 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 500 | 600 | 7.0 | 25 | 12.5 | 2 | PF125%13372BS1x |
| 1.5 | 42.0 | 43.0 | 28 | 37.5 | 1.0 | 500 | 750 | 5.8 | 25 | 14.0 | 2 | PF155%13372BS1x |
| 1.8 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 500 | 900 | 5.0 | 25 | 16.0 | 2 | PF185%13372BS1x |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1600VDC(16)

| CAP (uF) | Dimensions (mm) | | | | | dv/dt (V/us) | Peak Current (A) | ESR 10KHz (mΩ) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------|-----------------|------|-----|------|-----|-----------------|------------------------|----------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.0033 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 19.8 | 190 | 12 | 1.1 | 2 | PF332%16152BS1x |
| 0.0047 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 28.2 | 165 | 12 | 1.3 | 2 | PF472%16152BS1x |
| 0.0056 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 33.6 | 120 | 12 | 1.4 | 2 | PF562%16152BS1x |
| 0.0068 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 40.8 | 100 | 12 | 1.6 | 2 | PF682%16152BS1x |
| 0.0082 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 49.2 | 95 | 12 | 1.8 | 2 | PF822%16152BS1x |
| 0.010 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 6000 | 60 | 65 | 12 | 2.0 | 2 | PF103%16152BS1x |
| 0.012 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 6000 | 72 | 50 | 12 | 2.3 | 2 | PF123%16152BS1x |
| 0.015 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 6000 | 90 | 45 | 12 | 2.5 | 2 | PF153%16152BS1x |
| 0.018 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 6000 | 108 | 35 | 12 | 3.0 | 2 | PF183%16152BS1x |
| 0.022 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 6000 | 132 | 30 | 12 | 3.2 | 2 | PF223%16152BS1x |
| 0.027 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 6000 | 162 | 25 | 12 | 3.8 | 2 | PF273%16152BS1x |
| 0.033 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 6000 | 198 | 20 | 12 | 4.0 | 2 | PF333%16152BS1x |
| 0.015 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 3000 | 45 | 40 | 15 | 2.8 | 2 | PF153%16222BS1x |
| 0.022 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 3000 | 66 | 30 | 15 | 3.5 | 2 | PF223%16222BS1x |
| 0.033 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 3000 | 99 | 20 | 15 | 4.0 | 2 | PF333%16222BS1x |
| 0.039 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 3000 | 117 | 16 | 15 | 4.8 | 2 | PF393%16222BS1x |
| 0.047 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 3000 | 141 | 15 | 15 | 5.2 | 2 | PF473%16222BS1x |
| 0.056 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 3000 | 168 | 14 | 15 | 5.4 | 2 | PF563%16222BS1x |
| 0.068 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 3000 | 204 | 13 | 15 | 5.8 | 2 | PF683%16222BS1x |
| 0.082 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 3000 | 246 | 12 | 15 | 6.0 | 2 | PF823%16222BS1x |
| 0.100 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 3000 | 300 | 11 | 15 | 6.5 | 2 | PF104%16222BS1x |
| 0.039 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 2000 | 78 | 30 | 20 | 3.8 | 2 | PF393%16272BS1x |
| 0.047 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 2000 | 94 | 29 | 20 | 4.0 | 2 | PF473%16272BS1x |
| 0.056 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 2000 | 112 | 28 | 20 | 4.5 | 2 | PF563%16272BS1x |
| 0.068 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | 2000 | 136 | 24 | 20 | 5.0 | 2 | PF683%16272BS1x |
| 0.082 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 2000 | 164 | 20 | 20 | 5.5 | 2 | PF823%16272BS1x |
| 0.10 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 2000 | 200 | 18 | 20 | 6.0 | 2 | PF104%16272BS1x |
| 0.12 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 2000 | 240 | 16 | 20 | 6.5 | 2 | PF124%16272BS1x |
| 0.15 | 32.0 | 24.5 | 13 | 27.5 | 0.8 | 2000 | 300 | 14 | 20 | 7.0 | 2 | PF154%16272BS1x |
| 0.18 | 32.0 | 28.0 | 14 | 27.5 | 0.8 | 2000 | 360 | 12 | 20 | 7.5 | 2 | PF184%16272BS1x |
| 0.22 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 2000 | 440 | 10 | 20 | 8.5 | 2 | PF224%16272BS1x |
| 0.27 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 2000 | 540 | 9.5 | 20 | 9.0 | 2 | PF274%16272BS1x |
| 0.33 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 2000 | 660 | 8.0 | 20 | 10.0 | 2 | PF334%16272BS1x |
| 0.39 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 2000 | 780 | 7.0 | 20 | 11.0 | 2 | PF394%16272BS1x |
| 0.47 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 2000 | 940 | 6.0 | 20 | 12.0 | 2 | PF474%16272BS1x |
| 0.082 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1200 | 98.4 | 28 | 25 | 4.8 | 2 | PF823%16372BS1x |
| 0.10 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1200 | 120 | 24 | 25 | 5.0 | 2 | PF104%16372BS1x |
| 0.12 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1200 | 144 | 22 | 25 | 5.5 | 2 | PF124%16372BS1x |
| 0.15 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1200 | 180 | 20 | 25 | 5.8 | 2 | PF154%16372BS1x |
| 0.18 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 1200 | 216 | 18 | 25 | 6.0 | 2 | PF184%16372BS1x |
| 0.22 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 1200 | 264 | 17 | 25 | 6.2 | 2 | PF224%16372BS1x |
| 0.27 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 1200 | 324 | 15 | 25 | 6.5 | 2 | PF274%16372BS1x |
| 0.33 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 1200 | 396 | 14 | 25 | 6.8 | 2 | PF334%16372BS1x |
| 0.39 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 1200 | 468 | 12.5 | 25 | 7.5 | 2 | PF394%16372BS1x |
| 0.47 | 42.0 | 32.0 | 19 | 37.5 | 1.0 | 1200 | 564 | 12 | 25 | 8.0 | 2 | PF474%16372BS1x |
| 0.56 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 1200 | 672 | 11 | 25 | 9.0 | 2 | PF564%16372BS1x |
| 0.68 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 1200 | 816 | 10.5 | 25 | 9.5 | 2 | PF684%16372BS1x |
| 0.82 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 1200 | 984 | 9.0 | 25 | 10.5 | 2 | PF824%16372BS1x |
| 1.0 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 1200 | 1200 | 7.5 | 25 | 12.0 | 2 | PF105%16372BS1x |
| 1.2 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 1200 | 1440 | 6.0 | 25 | 14.0 | 2 | PF125%16372BS1x |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 2000VDC(20)

| CAP (uF) | Dimensions (mm) | | | | | dv/dt (V/us) | Peak Current (A) | ESR 10KHz (mΩ) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------|-----------------|------|-----|------|-----|-----------------|------------------------|----------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.001 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 9.5 | 630 | 12 | 0.5 | 2 | PF102%20152BS1x |
| 0.0012 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 11.4 | 500 | 12 | 0.6 | 2 | PF122%20152BS1x |
| 0.0015 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 14.25 | 420 | 12 | 0.7 | 2 | PF152%20152BS1x |
| 0.0018 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 17.1 | 350 | 12 | 0.8 | 2 | PF182%20152BS1x |
| 0.0022 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 20.9 | 300 | 12 | 0.9 | 2 | PF222%20152BS1x |
| 0.0027 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 25.65 | 240 | 12 | 1.0 | 2 | PF272%20152BS1x |
| 0.0033 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 31.35 | 190 | 12 | 1.2 | 2 | PF332%20152BS1x |
| 0.0039 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 37.05 | 165 | 12 | 1.3 | 2 | PF392%20152BS1x |
| 0.0047 | 18.0 | 11.0 | 5.0 | 15.0 | 0.8 | 9500 | 44.65 | 135 | 12 | 1.4 | 2 | PF472%20152BS1x |
| 0.0056 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 9500 | 53.2 | 110 | 12 | 1.6 | 2 | PF562%20152BS1x |
| 0.0068 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 9500 | 64.6 | 95 | 12 | 1.8 | 2 | PF682%20152BS1x |
| 0.0082 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 9500 | 77.9 | 80 | 12 | 2.0 | 2 | PF822%20152BS1x |
| 0.010 | 18.0 | 13.5 | 7.5 | 15.0 | 0.8 | 9500 | 95 | 65 | 12 | 2.5 | 2 | PF103%20152BS1x |
| 0.012 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 9500 | 114 | 50 | 12 | 2.8 | 2 | PF123%20152BS1x |
| 0.015 | 18.0 | 14.5 | 8.5 | 15.0 | 0.8 | 9500 | 142.5 | 45 | 12 | 3.0 | 2 | PF153%20152BS1x |
| 0.018 | 18.0 | 16.0 | 10 | 15.0 | 0.8 | 9500 | 171 | 35 | 12 | 3.8 | 2 | PF183%20152BS1x |
| 0.001 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 4.5 | 550 | 15 | 0.6 | 2 | PF102%20222BS1x |
| 0.0012 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 5.4 | 450 | 15 | 0.7 | 2 | PF122%20222BS1x |
| 0.0015 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 6.75 | 360 | 15 | 0.8 | 2 | PF152%20222BS1x |
| 0.0018 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 8.1 | 300 | 15 | 0.9 | 2 | PF182%20222BS1x |
| 0.0022 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 9.9 | 250 | 15 | 1.0 | 2 | PF222%20222BS1x |
| 0.0027 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 12.15 | 230 | 15 | 1.2 | 2 | PF272%20222BS1x |
| 0.0033 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 14.85 | 200 | 15 | 1.2 | 2 | PF332%20222BS1x |
| 0.0039 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 17.55 | 180 | 15 | 1.4 | 2 | PF392%20222BS1x |
| 0.0047 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 21.15 | 140 | 15 | 1.6 | 2 | PF472%20222BS1x |
| 0.0056 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 25.2 | 120 | 15 | 1.8 | 2 | PF562%20222BS1x |
| 0.0068 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 30.6 | 95 | 15 | 2.0 | 2 | PF682%20222BS1x |
| 0.0082 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 36.9 | 75 | 15 | 2.2 | 2 | PF822%20222BS1x |
| 0.010 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 45 | 65 | 15 | 2.3 | 2 | PF103%20222BS1x |
| 0.012 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 54 | 60 | 15 | 2.5 | 2 | PF123%20222BS1x |
| 0.015 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 67.5 | 45 | 15 | 2.8 | 2 | PF153%20222BS1x |
| 0.018 | 26.0 | 15.5 | 6.0 | 22.5 | 0.8 | 4500 | 81 | 35 | 15 | 3.2 | 2 | PF183%20222BS1x |
| 0.022 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 4500 | 99 | 26 | 15 | 4.0 | 2 | PF223%20222BS1x |
| 0.027 | 26.0 | 16.5 | 7.0 | 22.5 | 0.8 | 4500 | 121.5 | 20 | 15 | 4.5 | 2 | PF273%20222BS1x |
| 0.033 | 26.0 | 17.0 | 8.5 | 22.5 | 0.8 | 4500 | 148.5 | 18 | 15 | 5.2 | 2 | PF333%20222BS1x |
| 0.039 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 4500 | 175.5 | 15 | 15 | 5.8 | 2 | PF393%20222BS1x |
| 0.047 | 26.0 | 19.0 | 10 | 22.5 | 0.8 | 4500 | 211.5 | 13 | 15 | 6.0 | 2 | PF473%20222BS1x |
| 0.056 | 26.0 | 20.0 | 11 | 22.5 | 0.8 | 4500 | 252 | 12 | 15 | 6.5 | 2 | PF563%20222BS1x |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 2000VDC(20)

| CAP (μ F) | Dimensions (mm) | | | | | dv/dt (V/ μ s) | Peak Current (A) | ESR 10KHz (m Ω) | ESL (nH) | I _{rms} 10KHz 70°C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|-----|------|-----|-----------------------|------------------------|-------------------------------|-------------|--|--------------|-----------------|
| | L | H | T | P | d | | | | | | | |
| 0.022 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 2500 | 55 | 45 | 20 | 3.0 | 2 | PF223%20272BS1x |
| 0.027 | 32.0 | 17.0 | 8.0 | 27.5 | 0.8 | 2500 | 67.5 | 40 | 20 | 3.5 | 2 | PF273%20272BS1x |
| 0.033 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | 2500 | 82.5 | 35 | 20 | 4.0 | 2 | PF333%20272BS1x |
| 0.039 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 2500 | 97.5 | 28 | 20 | 4.5 | 2 | PF393%20272BS1x |
| 0.047 | 32.0 | 20.0 | 11 | 27.5 | 0.8 | 2500 | 117.5 | 25 | 20 | 4.8 | 2 | PF473%20272BS1x |
| 0.056 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 2500 | 140 | 24 | 20 | 5.0 | 2 | PF563%20272BS1x |
| 0.068 | 32.0 | 22.0 | 13 | 27.5 | 0.8 | 2500 | 170 | 22 | 20 | 5.5 | 2 | PF683%20272BS1x |
| 0.082 | 32.0 | 24.5 | 13 | 27.5 | 0.8 | 2500 | 205 | 20 | 20 | 6.0 | 2 | PF823%20272BS1x |
| 0.10 | 32.0 | 28.0 | 14 | 27.5 | 0.8 | 2500 | 250 | 18 | 20 | 6.5 | 2 | PF104%20272BS1x |
| 0.12 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 2500 | 300 | 16 | 20 | 7.0 | 2 | PF124%20272BS1x |
| 0.15 | 32.0 | 33.0 | 18 | 27.5 | 0.8 | 2500 | 375 | 14 | 20 | 7.5 | 2 | PF154%20272BS1x |
| 0.18 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 2500 | 450 | 12 | 20 | 8.0 | 2 | PF184%20272BS1x |
| 0.22 | 32.0 | 37.0 | 22 | 27.5 | 1.0 | 2500 | 550 | 10 | 20 | 8.5 | 2 | PF224%20272BS1x |
| 0.033 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 49.5 | 35 | 25 | 4.0 | 2 | PF333%20372BS1x |
| 0.039 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 58.5 | 28 | 25 | 4.5 | 2 | PF393%20372BS1x |
| 0.047 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 70.5 | 26 | 25 | 4.8 | 2 | PF473%20372BS1x |
| 0.056 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 84 | 24 | 25 | 5.0 | 2 | PF563%20372BS1x |
| 0.068 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 102 | 23 | 25 | 5.4 | 2 | PF683%20372BS1x |
| 0.082 | 42.0 | 22.0 | 11 | 37.5 | 1.0 | 1500 | 123 | 22 | 25 | 5.8 | 2 | PF823%20372BS1x |
| 0.10 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 1500 | 150 | 18 | 25 | 6.5 | 2 | PF104%20372BS1x |
| 0.12 | 42.0 | 24.0 | 13 | 37.5 | 1.0 | 1500 | 180 | 16 | 25 | 7.0 | 2 | PF124%20372BS1x |
| 0.15 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 1500 | 225 | 15 | 25 | 7.5 | 2 | PF154%20372BS1x |
| 0.18 | 42.0 | 28.5 | 16 | 37.5 | 1.0 | 1500 | 270 | 14 | 25 | 8.0 | 2 | PF184%20372BS1x |
| 0.22 | 42.0 | 32.0 | 19 | 37.5 | 1.0 | 1500 | 330 | 12 | 25 | 8.5 | 2 | PF224%20372BS1x |
| 0.27 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 1500 | 405 | 11 | 25 | 9.0 | 2 | PF274%20372BS1x |
| 0.33 | 42.0 | 40.0 | 20 | 37.5 | 1.0 | 1500 | 495 | 10.5 | 25 | 9.5 | 2 | PF334%20372BS1x |
| 0.39 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 1500 | 585 | 9.5 | 25 | 10.0 | 2 | PF394%20372BS1x |
| 0.47 | 42.0 | 44.0 | 24 | 37.5 | 1.0 | 1500 | 705 | 9.0 | 25 | 10.5 | 2 | PF474%20372BS1x |
| 0.56 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 1500 | 840 | 7.5 | 25 | 12.0 | 2 | PF564%20372BS1x |
| 0.68 | 42.0 | 45.0 | 30 | 37.5 | 1.0 | 1500 | 1020 | 6.0 | 25 | 14.0 | 2 | PF684%20372BS1x |

Note: % denoted to tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K) at 25°C, x denoted to option code, see the parts number system

ENVIRONMENTAL TEST

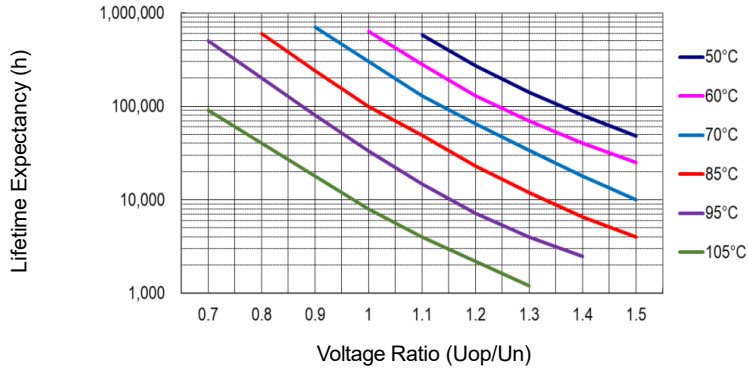
| Item | Test Condition | Performance | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|---|------------------|-----------|---------|-----|-----------|---|---------|-------|--------|-------------------|-------------|---|----|---|----|---|--|
| Biased Humidity | Temperature: +85 ±2°C, Humidity: 85% RH, Duration: 1000 +24/0 hours Loading Voltage: rated voltage Stabilized for 4 hours at standard temperature and humidity before measurements. | ΔC/C: ≤ ± 10% DF: ≤ 150*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Damp Heat Loading | Temperature: +40 ± 2°C, RH: 90% to 95%, Duration: 1000+24/-0 hours Loading Voltage: rated voltage | ΔC/C: ≤ ± 5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| High Temperature Loading | Temperature: +85 ±2 °C, Duration: 1000 hours Apply 125% of Rated Voltage for 1,000 +24/-0 hours. | ΔC/C: ≤ ± 5% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Rapid Temperature Change | High Temperature: +105 ± 5°C, Low Temperature: -40 ± 5°C Temperature Cycle: Total 5 cycles, 30 min ± 10% for each temperature | ΔC/C: ≤ ±3% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥50% of initial limit | | | | | | | | | | | | | | | | | | |
| Humidity Resistance | Temperature: +40°C ± 2°C, RH: 90% to 95%, Duration: 1344 +24/-0 hours | ΔC/C: ≤ ±5% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Solderability | Soldering temperature: +245 ±5°C, Immersion duration: 2 ±0.5 seconds | More than 95% of Coverage | | | | | | | | | | | | | | | | | | |
| Soldering Heat Resistance | Preheat temperature 100°C~120°C, Preheat Duration: 100 sec max, Soldering Temperature: +260 ±5°C, Immersion Duration: ≤10 seconds, Depth: 1.5 ±0.5 mm Soldering Temperature: +400°C, Immersion Duration: ≤3 seconds Stabilized for 1.5 ±0.5hr at ordinary condition before measurements | ΔC/C: ≤ ± 2% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Temperature Cycle | Test Temperature Cycle: Total 5 cycles, Each cycle includes <table border="1"> <thead> <tr> <th>Cycle</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>Temp (°C)</td> <td>+20±2</td> <td>-40±3</td> <td>+20±2</td> <td>+105±3</td> <td>+20±2</td> </tr> <tr> <td>Time (mins)</td> <td>3</td> <td>30</td> <td>3</td> <td>30</td> <td>3</td> </tr> </tbody> </table> | Cycle | 1 | 2 | 3 | 4 | 5 | Temp (°C) | +20±2 | -40±3 | +20±2 | +105±3 | +20±2 | Time (mins) | 3 | 30 | 3 | 30 | 3 | ΔC/C: ≤ ± 5% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit |
| Cycle | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| Temp (°C) | +20±2 | -40±3 | +20±2 | +105±3 | +20±2 | | | | | | | | | | | | | | | |
| Time (mins) | 3 | 30 | 3 | 30 | 3 | | | | | | | | | | | | | | | |
| Resistance to solvent | Solvent: propanol (isopropyl alcohol) Temperature: 23 ±5°C, Immersion time: 5 ±0.5min, Drying time: 5 mins Mechanical treatment: 10 rubbing (with cotton-wool) | ΔC/C: ≤ ± 1% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Terminal Strength | <table border="1"> <thead> <tr> <th>Item</th> <th>0.50 < D ≤0.80mm</th> <th>0.80 < D ≤1.25mm</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>Tension</td> <td>10N</td> <td>20N</td> <td rowspan="2">Make two successive bends in each direction</td> </tr> <tr> <td>Bending</td> <td>5N</td> <td>10N</td> </tr> </tbody> </table> | Item | 0.50 < D ≤0.80mm | 0.80 < D ≤1.25mm | Condition | Tension | 10N | 20N | Make two successive bends in each direction | Bending | 5N | 10N | No visible damage | | | | | | | |
| Item | 0.50 < D ≤0.80mm | 0.80 < D ≤1.25mm | Condition | | | | | | | | | | | | | | | | | |
| Tension | 10N | 20N | Make two successive bends in each direction | | | | | | | | | | | | | | | | | |
| Bending | 5N | 10N | | | | | | | | | | | | | | | | | | |
| Vibration | Frequency Change: 10--55--10 Hz, Vibration Distance: 1.5 mm Direction: X, Y, Z, Duration: 2 ±1 hours each direction | | | | | | | | | | | | | | | | | | | |
| Mechanical Shock | Pulse-shape: half-sine wave, Acceleration: 500 m/s ² , Duration of pulse: 11 ms | ΔC/C: ≤ ± 1% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | | | | | | | | |
| Bump | Total number of bumps: 1000 times or 4000 times, Acceleration: 400 m/s ² , Pulse duration: 6 ms | | | | | | | | | | | | | | | | | | | |

Notes:

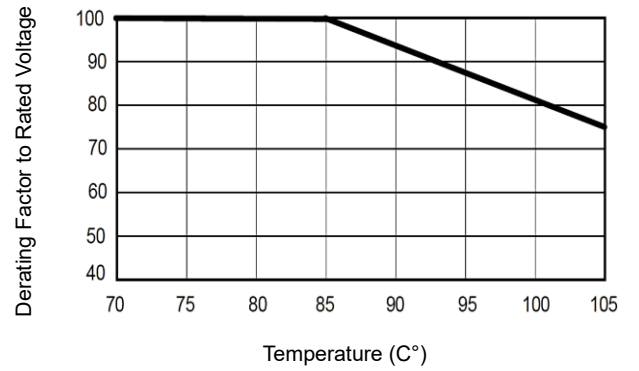
- 1.Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
- 2.Storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around
- 3.Do not apply and exceeding vibration, shock (dropping) and pressure
- 4.Reference Standards: IEC 60068, IEC 61071, MIL-STD-202, IEC 60384

CHARACTERISTIC CURVE

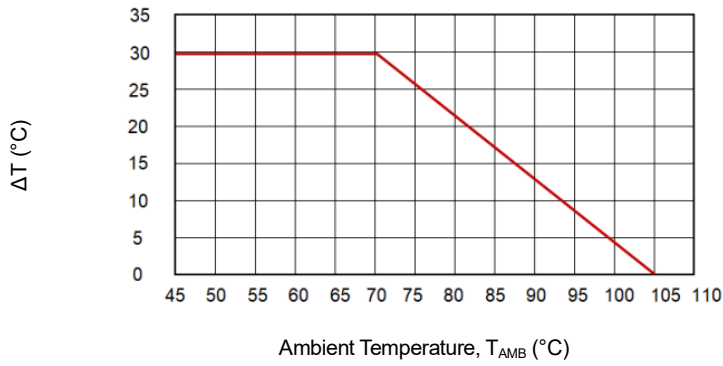
Lifetime Expectancy



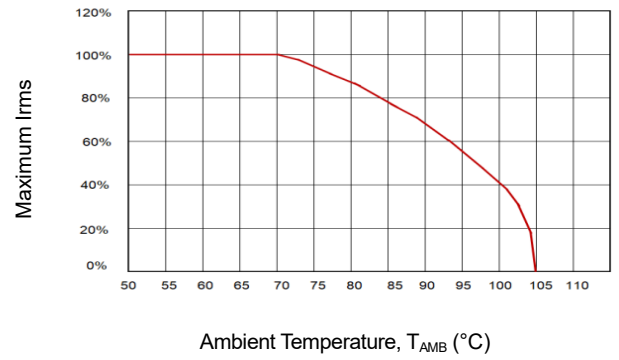
Rated Voltage vs Temperature



Maximum Over Temperature (ΔT) Vs Ambient Temperature (T_{AMB})



Maximum I_{rms} VS Ambient Temperature (T_{AMB})



*Specifications subject to change without notice.