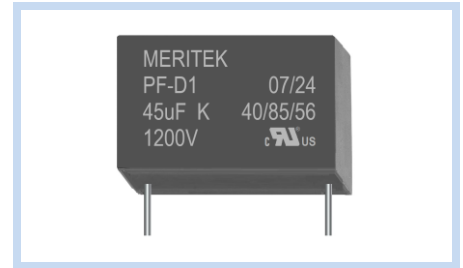


FEATURE

- Self-Healing Property
- High Ripple and Peak (dv/dt) Current Capability
- Low ESL, High Frequency Performance
- Applications: Renewable Energies Inverters, UPS, Battery Charger, Motor Drive, High Frequency Applications
- In Accordance with Safety Class UL 810 Standard



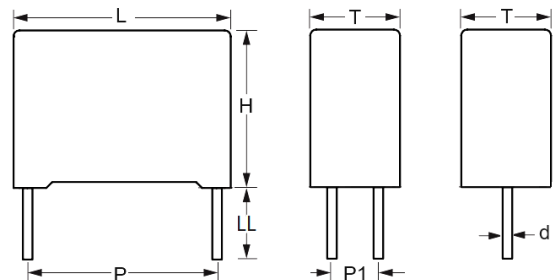
ELECTRICAL CHARACTERISTICS

| Item | Characteristic | | | | | | | | | |
|--|---|--------|---------------|--------|---|--------|------------|----------|-----------------------------|----|
| Operating Temperature | -40~+105°C (85°C~+105°C Decreasing factor 1.25% per °C for rated voltage) | | | | | | | | | |
| Capacitance Range | 1.0μF ~ 200μF, ±5%(J), ±10%(K), ±20%(M) at 25°C | | | | | | | | | |
| Climatic Category | 40/85/56 IEC60068-1 | | | | | | | | | |
| Operating DC Voltage, V _{NDC} | 450 | 550 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | -- |
| Max RMS Current, 70°C 10KHz | 5~33 | 5.5~33 | 2.9~34 | 2.9~34 | 2.9~35 | 2~33.5 | 2~28.5 | 2.2~24.5 | 3.2~25 | -- |
| Dissipation Factor | C ≤20μF | | C >20μF | | C >80μF | | -- | | at 1KHz; at 25°C | |
| | ≤0.002 (0.2%) | | ≤0.003 (0.3%) | | ≤0.004 (0.4%) | | -- | | | |
| Overvoltage | 110% of VR | | 115% of VR | | 120% of VR | | 130% of VR | | Max duration within one day | |
| | 30% On-Load | | 30mins | | 5mins | | 1min | | | |
| Insulation Resistance | IR*C ≥ 30,000sec | | | | Between leads, at 100 Vdc, 60 sec, at 25°C ±5°C | | | | | |
| Withstanding Voltage | 1.5* VR VDC for 10sec | | | | Between Terminals, at 25°C±5°C | | | | | |
| | 3000VAC, 50/60Hz 60sec | | | | Between Terminals and Case, at 25 ±5°C | | | | | |
| Self-inductance | <1nH | | | | per mm of lead spacing | | | | | |
| Life Expectancy | 100,000 hours, V _{NDC} at 85°C | | | | at hot spot temperature T _{HS} | | | | | |

DIMENSIONS

| No of Pin | P ±0.5mm | P1 ±0.5mm | d ±0.05mm | L±1.0mm |
|-----------|----------|------------|-----------|---------|
| 2-pin | 27.5 | NA | 0.8 | 32 |
| 2-pin | 37.5 | NA | 1.0 | 42 |
| 4-pin | 27.5 | 10.2 | 0.8 | 32 |
| 4-pin | 37.5 | 10.2, 20.3 | 1.0 | 42 |
| 4-pin | 52.5 | 20.3 | 1.2 | 57.5 |

Note:
 1. L±1.0mm, H±1mm, T±1mm, See the table below for dimension
 2. LL Options: 3mm, 4mm, 5mm, 7mm, 15mm Min



PART NUMBERING SYSTEM

PF **456K** **12** **540** **D1** **5**
 (1) (2) (3) (4) (5) (6)

| No | Item | Code | Description | |
|-----|-----------------------|------|---|--|
| (1) | Product Code | PF | Power Film Capacitor, Metallized PP Film | |
| (2) | Nominal Capacitance | 456K | 45 μF ±10%(K) | First two digits: Significant, Third: Multiplier |
| (3) | Rated DC Voltage Code | 12 | 12: 1200VDC | First two digits of Operating DC Voltage, V _{NDC} |
| (4) | Internal Code | 540 | 5: 52.5mm pitch, 4: 4pins, 0: Case code | See the electrical specification table below |
| (5) | Series Code | D1 | DC Link Capacitor Series, Radial Leaded Box Type, UL810 | |
| (6) | Option Code | 5 | 5: LL 5mm Bulk package | Blank: LL: 15mm min, 4: LL 4mm, Bulk package |

ELECTRICAL SPECIFICATION – 450VDC (45)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | Irms 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 5 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 325 | 975 | 20 | 25 | 30.0 | 5.0 | 2 | PF505%45220D1x |
| 10 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 650 | 1950 | 11 | 25 | 27.8 | 7.0 | 2 | PF106%45220D1x |
| 15 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 975 | 2925 | 7.0 | 25 | 17.7 | 11.0 | 2 | PF156%45220D1x |
| 22 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 1430 | 4290 | 5.0 | 28 | 24.8 | 11.0 | 2 | PF226%45220D1x |
| 25 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 1625 | 4875 | 4.8 | 28 | 24.8 | 12.0 | 2 | PF256%45220D1x |
| 30 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 1050 | 3150 | 7.5 | 30 | 12.8 | 12.5 | 4 | PF306%45340D1x |
| 35 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 35 | 1225 | 3675 | 7.0 | 30 | 11.8 | 13.5 | 4 | PF356%45340D1x |
| 40 | 42 | 37 | 28 | 37.5 | 10.2 | 1.2 | 35 | 1400 | 4200 | 6.2 | 30 | 11.5 | 14.5 | 4 | PF406%45340D1x |
| 50 | 42 | 43 | 28 | 37.5 | 10.2 | 1.2 | 35 | 1750 | 5250 | 5.0 | 30 | 11.7 | 16.0 | 4 | PF506%45341D1x |
| 50 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 5.0 | 30 | 11.7 | 16.0 | 4 | PF506%45342D1x |
| 60 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 2100 | 6300 | 4.5 | 30 | 12.2 | 16.5 | 4 | PF606%45340D1x |
| 80 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 2800 | 8400 | 3.8 | 30 | 12.2 | 20.5 | 4 | PF806%45340D1x |
| 110 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 3850 | 11550 | 3.6 | 30 | 12.2 | 24.5 | 4 | PF117%45340D1x |
| 130 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 4550 | 13650 | 3.0 | 30 | 12.2 | 28.5 | 4 | PF137%45340D1x |
| 75 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 5.5 | 35 | 10.0 | 16.5 | 4 | PF756%45540D1x |
| 80 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1600 | 4800 | 5.0 | 35 | 10.4 | 17.0 | 4 | PF806%45540D1x |
| 100 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 2000 | 6000 | 4.5 | 35 | 10.3 | 18.0 | 4 | PF107%45540D1x |
| 110 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 2200 | 6600 | 4.0 | 35 | 10.4 | 19.0 | 4 | PF117%45540D1x |
| 120 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 2400 | 7200 | 3.8 | 35 | 10.4 | 21.5 | 4 | PF127%45540D1x |
| 160 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 3200 | 9600 | 3.0 | 35 | 10.4 | 28.5 | 4 | PF167%45540D1x |
| 200 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 4000 | 12000 | 2.6 | 35 | 10.4 | 33.0 | 4 | PF207%45540D1x |

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

ELECTRICAL SPECIFICATION – 550VDC (55)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | Irms 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|----|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 5 | 32 | 22 | 13 | 27.5 | - | 0.8 | 65 | 325 | 975 | 19.5 | 25 | 25.4 | 5.5 | 2 | PF505%55220D1x |
| 10 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 650 | 1950 | 10.5 | 25 | 25.4 | 7.5 | 2 | PF106%55220D1x |
| 15 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 975 | 2925 | 6.8 | 28 | 16.7 | 11.5 | 2 | PF156%55220D1x |
| 22 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 1430 | 4290 | 4.9 | 28 | 23.1 | 11.5 | 2 | PF226%55220D1x |
| 30 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 1050 | 3150 | 7.2 | 30 | 12.3 | 13.0 | 4 | PF306%55340D1x |
| 35 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 6.8 | 30 | 11.6 | 13.8 | 4 | PF356%55340D1x |
| 40 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 6.0 | 30 | 11.4 | 14.8 | 4 | PF406%55340D1x |
| 50 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 4.8 | 30 | 10.8 | 17.0 | 4 | PF506%55340D1x |
| 60 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 2100 | 6300 | 4.2 | 30 | 11.0 | 18.0 | 4 | PF606%55340D1x |
| 70 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 2450 | 7350 | 3.8 | 30 | 11.0 | 20.5 | 4 | PF706%55340D1x |
| 110 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 3850 | 11550 | 3.6 | 30 | 11.0 | 24.5 | 4 | PF117%55340D1x |
| 75 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 5.2 | 35 | 10.2 | 16.8 | 4 | PF756%55540D1x |
| 100 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 2000 | 6000 | 4.3 | 35 | 10.2 | 18.5 | 4 | PF107%55540D1x |
| 110 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 2200 | 6600 | 4.0 | 35 | 9.4 | 20.0 | 4 | PF117%55540D1x |
| 140 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2800 | 8400 | 3.5 | 35 | 6.3 | 26.0 | 4 | PF147%55540D1x |
| 170 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 3400 | 10200 | 2.8 | 35 | 5.2 | 32.0 | 4 | PF177%55540D1x |
| 180 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 3600 | 10800 | 2.6 | 35 | 5.2 | 33.0 | 4 | PF187%55540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 600VDC(60)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | I _{rms} 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 2 | 32 | 18 | 9 | 27.5 | - | 0.8 | 65 | 130 | 390 | 40.0 | 25 | 44.6 | 2.9 | 2 | PF205%60220D1x |
| 3 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 195 | 585 | 28.0 | 25 | 33.5 | 4.0 | 2 | PF305%60220D1x |
| 4 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 260 | 780 | 23.0 | 25 | 21.6 | 5.5 | 2 | PF405%60220D1x |
| 5 | 32 | 22 | 13 | 27.5 | - | 0.8 | 65 | 325 | 975 | 14.5 | 25 | 21.1 | 7.0 | 2 | PF505%60220D1x |
| 6 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 390 | 1170 | 13.0 | 25 | 21.7 | 7.3 | 2 | PF605%60220D1x |
| 7 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 455 | 1365 | 12.0 | 25 | 17.3 | 8.5 | 2 | PF705%60220D1x |
| 8 | 32 | 28 | 14 | 27.5 | - | 0.8 | 65 | 520 | 1560 | 11.0 | 25 | 15.1 | 9.5 | 2 | PF805%60220D1x |
| 9 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 585 | 1755 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF905%60220D1x |
| 10 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 650 | 1950 | 10.0 | 25 | 12.4 | 11.0 | 2 | PF106%60220D1x |
| 12 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 780 | 2340 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF126%60220D1x |
| 15 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 975 | 2925 | 9.5 | 28 | 11.0 | 12.0 | 2 | PF156%60221D1x |
| 15 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 975 | 2925 | 7.0 | 28 | 10.2 | 14.5 | 4 | PF156%60242D1x |
| 18 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 1170 | 3510 | 9.0 | 28 | 10.7 | 12.5 | 2 | PF186%60221D1x |
| 18 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 1170 | 3510 | 6.0 | 28 | 9.2 | 16.5 | 4 | PF186%60242D1x |
| 10 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 350 | 1050 | 18.0 | 28 | 17.0 | 7.0 | 2 | PF106%60320D1x |
| 12 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 420 | 1260 | 12.0 | 28 | 19.5 | 8.0 | 2 | PF126%60320D1x |
| 15 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 525 | 1575 | 11.0 | 28 | 15.1 | 9.5 | 2 | PF156%60320D1x |
| 20 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 700 | 2100 | 9.0 | 30 | 10.7 | 12.5 | 4 | PF206%60340D1x |
| 22 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 770 | 2310 | 8.0 | 30 | 10.3 | 13.5 | 4 | PF226%60340D1x |
| 25 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 875 | 2625 | 7.0 | 30 | 8.9 | 15.5 | 4 | PF256%60340D1x |
| 30 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 1050 | 3150 | 6.5 | 30 | 8.5 | 16.5 | 4 | PF306%60340D1x |
| 35 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 6.0 | 30 | 7.3 | 18.5 | 4 | PF356%60340D1x |
| 40 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 5.0 | 30 | 7.1 | 20.5 | 4 | PF406%60340D1x |
| 45 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1575 | 4725 | 4.5 | 30 | 6.3 | 23.0 | 4 | PF456%60340D1x |
| 50 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 4.0 | 30 | 6.0 | 25.0 | 4 | PF506%60340D1x |
| 60 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 2100 | 6300 | 3.8 | 30 | 5.4 | 27.0 | 4 | PF606%60340D1x |
| 70 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 2450 | 7350 | 3.5 | 30 | 5.1 | 29.0 | 4 | PF706%60340D1x |
| 75 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2625 | 7875 | 3.0 | 30 | 5.6 | 30.0 | 4 | PF756%60340D1x |
| 80 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2800 | 8400 | 2.8 | 30 | 5.2 | 32.0 | 4 | PF806%60340D1x |
| 85 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2975 | 8925 | 2.5 | 30 | 5.2 | 34.0 | 4 | PF856%60340D1x |
| 40 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 800 | 2400 | 8.0 | 35 | 10.3 | 13.5 | 4 | PF406%60540D1x |
| 45 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 900 | 2700 | 7.5 | 35 | 10.2 | 14.0 | 4 | PF456%60540D1x |
| 50 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 1000 | 3000 | 7.0 | 35 | 8.9 | 15.5 | 4 | PF506%60540D1x |
| 55 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 6.2 | 35 | 8.4 | 17.0 | 4 | PF556%60540D1x |
| 60 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1200 | 3600 | 6.0 | 35 | 7.3 | 18.5 | 4 | PF606%60540D1x |
| 65 | 58 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1300 | 3900 | 5.5 | 35 | 6.8 | 20.0 | 4 | PF656%60540D1x |
| 70 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1400 | 4200 | 5.0 | 35 | 6.5 | 21.5 | 4 | PF706%60540D1x |
| 75 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 4.5 | 35 | 6.0 | 23.5 | 4 | PF756%60540D1x |
| 80 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1600 | 4800 | 4.2 | 35 | 5.9 | 24.5 | 4 | PF806%60540D1x |
| 90 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1800 | 5400 | 4.0 | 35 | 5.5 | 26.0 | 4 | PF906%60540D1x |
| 100 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2000 | 6000 | 3.4 | 35 | 5.2 | 29.0 | 4 | PF107%60540D1x |
| 110 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2200 | 6600 | 3.0 | 35 | 5.6 | 30.0 | 4 | PF117%60540D1x |
| 120 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2400 | 7200 | 2.8 | 35 | 5.2 | 32.0 | 4 | PF127%60540D1x |
| 130 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2600 | 7800 | 2.6 | 35 | 5.3 | 33.0 | 4 | PF137%60540D1x |
| 140 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2800 | 8400 | 2.5 | 35 | 5.2 | 34.0 | 4 | PF147%60540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 700VDC (70)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/ μ s) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | Irms 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 2 | 32 | 18 | 9 | 27.5 | - | 0.8 | 65 | 130 | 390 | 40.0 | 25 | 44.6 | 2.9 | 2 | PF205%70220D1x |
| 3 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 195 | 585 | 28.0 | 25 | 33.5 | 4.0 | 2 | PF305%70220D1x |
| 4 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 260 | 780 | 23.0 | 25 | 21.6 | 5.5 | 2 | PF405%70220D1x |
| 5 | 32 | 22 | 13 | 27.5 | - | 0.8 | 65 | 325 | 975 | 14.5 | 25 | 21.1 | 7.0 | 2 | PF505%70220D1x |
| 6 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 390 | 1170 | 13.0 | 25 | 21.7 | 7.3 | 2 | PF605%70220D1x |
| 7 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 455 | 1365 | 12.0 | 25 | 17.3 | 8.5 | 2 | PF705%70220D1x |
| 8 | 32 | 28 | 14 | 27.5 | - | 0.8 | 65 | 520 | 1560 | 11.0 | 25 | 15.1 | 9.5 | 2 | PF805%70220D1x |
| 9 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 585 | 1755 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF905%70220D1x |
| 10 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 650 | 1950 | 10.0 | 25 | 12.4 | 11.0 | 2 | PF106%70220D1x |
| 12 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 780 | 2340 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF126%70220D1x |
| 15 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 975 | 2925 | 9.5 | 28 | 11.0 | 12.0 | 2 | PF156%70221D1x |
| 15 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 975 | 2925 | 7.0 | 28 | 10.2 | 14.5 | 4 | PF156%70242D1x |
| 18 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 1170 | 3510 | 9.0 | 28 | 10.7 | 12.5 | 2 | PF186%70221D1x |
| 18 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 1170 | 3510 | 6.0 | 28 | 9.2 | 16.5 | 4 | PF186%70242D1x |
| 10 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 350 | 1050 | 18.0 | 28 | 17.0 | 7.0 | 2 | PF106%70320D1x |
| 12 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 420 | 1260 | 12.0 | 28 | 19.5 | 8.0 | 2 | PF126%70320D1x |
| 15 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 525 | 1575 | 11.0 | 28 | 15.1 | 9.5 | 2 | PF156%70320D1x |
| 20 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 700 | 2100 | 9.0 | 30 | 10.7 | 12.5 | 4 | PF206%70340D1x |
| 22 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 770 | 2310 | 8.0 | 30 | 10.3 | 13.5 | 4 | PF226%70340D1x |
| 25 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 875 | 2625 | 7.0 | 30 | 8.9 | 15.5 | 4 | PF256%70340D1x |
| 30 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 1050 | 3150 | 6.5 | 30 | 8.5 | 16.5 | 4 | PF306%70340D1x |
| 35 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 6.0 | 30 | 7.3 | 18.5 | 4 | PF356%70340D1x |
| 40 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 5.0 | 30 | 7.1 | 20.5 | 4 | PF406%70340D1x |
| 45 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1575 | 4725 | 4.5 | 30 | 6.3 | 23.0 | 4 | PF456%70340D1x |
| 50 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 4.0 | 30 | 6.0 | 25.0 | 4 | PF506%70340D1x |
| 60 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 2100 | 6300 | 3.8 | 30 | 5.4 | 27.0 | 4 | PF606%70340D1x |
| 70 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 2450 | 7350 | 3.5 | 30 | 5.1 | 29.0 | 4 | PF706%70340D1x |
| 75 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2625 | 7875 | 3.0 | 30 | 5.6 | 30.0 | 4 | PF756%70340D1x |
| 80 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2800 | 8400 | 2.8 | 30 | 5.2 | 32.0 | 4 | PF806%70340D1x |
| 85 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2975 | 8925 | 2.5 | 30 | 5.2 | 34.0 | 4 | PF856%70340D1x |
| 40 | 58 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 800 | 2400 | 8.0 | 35 | 10.3 | 13.5 | 4 | PF406%70540D1x |
| 45 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 900 | 2700 | 7.5 | 35 | 10.2 | 14.0 | 4 | PF456%70540D1x |
| 50 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 1000 | 3000 | 7.0 | 35 | 8.9 | 15.5 | 4 | PF506%70540D1x |
| 55 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 6.2 | 35 | 8.4 | 17.0 | 4 | PF556%70540D1x |
| 60 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 1200 | 3600 | 6.0 | 35 | 7.3 | 18.5 | 4 | PF606%70540D1x |
| 65 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1300 | 3900 | 5.5 | 35 | 6.8 | 20.0 | 4 | PF656%70540D1x |
| 70 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1400 | 4200 | 5.0 | 35 | 6.5 | 21.5 | 4 | PF706%70540D1x |
| 75 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 4.5 | 35 | 6.0 | 23.5 | 4 | PF756%70540D1x |
| 80 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1600 | 4800 | 4.2 | 35 | 5.9 | 24.5 | 4 | PF806%70540D1x |
| 90 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1800 | 5400 | 4.0 | 35 | 5.5 | 26.0 | 4 | PF906%70540D1x |
| 100 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2000 | 6000 | 3.4 | 35 | 5.2 | 29.0 | 4 | PF107%70540D1x |
| 110 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2200 | 6600 | 3.0 | 35 | 5.6 | 30.0 | 4 | PF117%70540D1x |
| 120 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2400 | 7200 | 2.8 | 35 | 5.2 | 32.0 | 4 | PF127%70540D1x |
| 130 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2600 | 7800 | 2.6 | 35 | 5.3 | 33.0 | 4 | PF137%70540D1x |
| 140 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2800 | 8400 | 2.5 | 35 | 5.2 | 34.0 | 4 | PF147%70540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 800VDC (80)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | Irms 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 2 | 32 | 18 | 9 | 27.5 | - | 0.8 | 65 | 130 | 390 | 40.0 | 25 | 44.6 | 2.9 | 2 | PF205%80220D1x |
| 3 | 32 | 20 | 11 | 27.5 | - | 0.8 | 65 | 195 | 585 | 26.0 | 25 | 28.5 | 4.5 | 2 | PF305%80220D1x |
| 4 | 32 | 24.5 | 13 | 27.5 | - | 0.8 | 65 | 260 | 780 | 22.0 | 25 | 20.3 | 5.8 | 2 | PF405%80220D1x |
| 5 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 65 | 325 | 975 | 14.0 | 25 | 19.0 | 7.5 | 2 | PF505%80220D1x |
| 6 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 390 | 1170 | 12.0 | 25 | 17.3 | 8.5 | 2 | PF605%80220D1x |
| 7 | 32 | 30 | 16 | 27.5 | - | 0.8 | 65 | 455 | 1365 | 11.0 | 25 | 15.1 | 9.5 | 2 | PF705%80220D1x |
| 8 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 520 | 1560 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF805%80220D1x |
| 9 | 32 | 33 | 18 | 27.5 | - | 0.8 | 65 | 585 | 1755 | 10.2 | 25 | 11.1 | 11.5 | 2 | PF905%80220D1x |
| 10 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 650 | 1950 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF106%80221D1x |
| 10 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 650 | 1950 | 8.5 | 25 | 9.0 | 14.0 | 4 | PF106%80242D1x |
| 12 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 780 | 2340 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF126%80221D1x |
| 12 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 780 | 2340 | 8.0 | 25 | 8.3 | 15.0 | 4 | PF126%80242D1x |
| 14 | 32 | 37 | 22 | 27.5 | - | 0.8 | 65 | 910 | 2730 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF146%80221D1x |
| 14 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 65 | 910 | 2730 | 7.5 | 25 | 7.8 | 16.0 | 4 | PF146%80242D1x |
| 8 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 280 | 840 | 22.5 | 28 | 22.0 | 5.5 | 2 | PF805%80320D1x |
| 9 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 315 | 945 | 21.5 | 28 | 19.4 | 6.0 | 2 | PF905%80320D1x |
| 10 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 350 | 1050 | 18.0 | 28 | 17.0 | 7.0 | 2 | PF106%80320D1x |
| 12 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 420 | 1260 | 12.0 | 28 | 19.5 | 8.0 | 2 | PF126%80320D1x |
| 14 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 490 | 1470 | 11.0 | 28 | 15.1 | 9.5 | 2 | PF146%80320D1x |
| 15 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 525 | 1575 | 9.0 | 30 | 10.7 | 12.5 | 4 | PF156%80340D1x |
| 20 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 700 | 2100 | 8.0 | 30 | 10.3 | 13.5 | 4 | PF206%80340D1x |
| 25 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 875 | 2625 | 6.5 | 30 | 8.5 | 16.5 | 4 | PF256%80340D1x |
| 30 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 1050 | 3150 | 5.8 | 30 | 6.5 | 20.0 | 4 | PF306%80340D1x |
| 35 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 5.5 | 30 | 5.6 | 22.0 | 4 | PF356%80340D1x |
| 40 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 4.8 | 30 | 5.0 | 25.0 | 4 | PF406%80340D1x |
| 45 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1575 | 4725 | 4.0 | 30 | 4.8 | 28.0 | 4 | PF456%80340D1x |
| 50 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 3.6 | 30 | 4.3 | 31.0 | 4 | PF506%80340D1x |
| 55 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 1925 | 5775 | 3.4 | 30 | 4.2 | 32.5 | 4 | PF556%80340D1x |
| 60 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2100 | 6300 | 3.2 | 30 | 4.1 | 34.0 | 4 | PF606%80340D1x |
| 65 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 2275 | 6825 | 2.8 | 30 | 4.4 | 35.0 | 4 | PF656%80340D1x |
| 25 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 500 | 1500 | 12.0 | 35 | 17.3 | 8.5 | 4 | PF256%80540D1x |
| 30 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 600 | 1800 | 10.5 | 35 | 14.3 | 10.0 | 4 | PF306%80540D1x |
| 35 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 700 | 2100 | 9.5 | 35 | 11.0 | 12.0 | 4 | PF356%80540D1x |
| 40 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 800 | 2400 | 8.5 | 35 | 9.0 | 14.0 | 4 | PF406%80540D1x |
| 45 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 900 | 2700 | 7.0 | 35 | 8.9 | 15.5 | 4 | PF456%80540D1x |
| 50 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1000 | 3000 | 5.8 | 35 | 8.9 | 17.0 | 4 | PF506%80540D1x |
| 55 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 5.5 | 35 | 7.6 | 19.0 | 4 | PF556%80540D1x |
| 60 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1200 | 3600 | 4.8 | 35 | 7.1 | 21.0 | 4 | PF606%80540D1x |
| 65 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1300 | 3900 | 4.6 | 35 | 6.4 | 22.5 | 4 | PF656%80540D1x |
| 70 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1400 | 4200 | 4.5 | 35 | 5.8 | 24.0 | 4 | PF706%80540D1x |
| 75 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 4.3 | 35 | 5.4 | 25.5 | 4 | PF756%80540D1x |
| 80 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1600 | 4800 | 4.2 | 35 | 5.3 | 26.0 | 4 | PF806%80540D1x |
| 90 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1800 | 5400 | 4.0 | 35 | 5.0 | 27.5 | 4 | PF906%80540D1x |
| 100 | 58 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2000 | 6000 | 3.2 | 35 | 4.7 | 31.5 | 4 | PF107%80540D1x |
| 110 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 2200 | 6600 | 3.0 | 35 | 4.3 | 34.0 | 4 | PF117%80540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 900VDC (90)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | Irms 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 1 | 32 | 18 | 9 | 27.5 | - | 0.8 | 70 | 70 | 210 | 65 | 25 | 57.7 | 2.0 | 2 | PF105%90220D1x |
| 2 | 32 | 20 | 11 | 27.5 | - | 0.8 | 70 | 140 | 420 | 38 | 25 | 38.5 | 3.2 | 2 | PF205%90220D1x |
| 3 | 32 | 22 | 13 | 27.5 | - | 0.8 | 70 | 210 | 630 | 30 | 25 | 21.7 | 4.8 | 2 | PF305%90220D1x |
| 4 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 70 | 280 | 840 | 20.5 | 25 | 20.3 | 6.0 | 2 | PF405%90220D1x |
| 5 | 32 | 30 | 16 | 27.5 | - | 0.8 | 70 | 350 | 1050 | 12 | 25 | 22.2 | 7.5 | 2 | PF505%90220D1x |
| 6 | 32 | 33 | 18 | 27.5 | - | 0.8 | 70 | 420 | 1260 | 11.5 | 25 | 21.4 | 7.8 | 2 | PF605%90220D1x |
| 7 | 32 | 33 | 18 | 27.5 | - | 0.8 | 70 | 490 | 1470 | 10.2 | 25 | 13.3 | 10.5 | 2 | PF705%90220D1x |
| 8 | 32 | 37 | 22 | 27.5 | - | 0.8 | 70 | 560 | 1680 | 9.5 | 25 | 11.9 | 11.5 | 2 | PF805%90221D1x |
| 8 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 70 | 560 | 1680 | 9.0 | 25 | 10.7 | 12.5 | 4 | PF805%90242D1x |
| 9 | 32 | 37 | 22 | 27.5 | - | 0.8 | 70 | 630 | 1890 | 9.7 | 25 | 11.1 | 11.8 | 2 | PF905%90221D1x |
| 9 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 70 | 630 | 1890 | 7.8 | 25 | 9.8 | 14.0 | 4 | PF905%90242D1x |
| 10 | 32 | 37 | 22 | 27.5 | - | 0.8 | 70 | 700 | 2100 | 9.5 | 25 | 11.0 | 12.0 | 2 | PF106%90221D1x |
| 10 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 70 | 700 | 2100 | 7.2 | 25 | 8.7 | 15.5 | 4 | PF106%90242D1x |
| 5 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 175 | 525 | 28 | 28 | 37.1 | 3.8 | 2 | PF505%90320D1x |
| 6 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 210 | 630 | 25 | 28 | 29.6 | 4.5 | 2 | PF605%90320D1x |
| 7 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 245 | 735 | 22 | 28 | 27.3 | 5.0 | 2 | PF705%90320D1x |
| 8 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 280 | 840 | 19.5 | 28 | 21.4 | 6.0 | 2 | PF805%90320D1x |
| 10 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 350 | 1050 | 13 | 30 | 20.5 | 7.5 | 4 | PF106%90340D1x |
| 12 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 35 | 420 | 1260 | 11.5 | 30 | 16.1 | 9.0 | 4 | PF126%90340D1x |
| 15 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 525 | 1575 | 10.5 | 30 | 13.0 | 10.5 | 4 | PF156%90340D1x |
| 18 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 630 | 1890 | 8.8 | 30 | 10.1 | 13.0 | 4 | PF186%90340D1x |
| 20 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 700 | 2100 | 7.5 | 30 | 9.5 | 14.5 | 4 | PF206%90340D1x |
| 25 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 875 | 2625 | 6.2 | 30 | 7.9 | 17.5 | 4 | PF256%90340D1x |
| 30 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 1050 | 3150 | 5 | 30 | 6.5 | 21.5 | 4 | PF306%90340D1x |
| 35 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 4.6 | 30 | 6.2 | 23.0 | 4 | PF356%90340D1x |
| 40 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 3.9 | 30 | 5.5 | 26.5 | 4 | PF406%90340D1x |
| 45 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 1575 | 4725 | 3.4 | 30 | 4.9 | 30.0 | 4 | PF456%90340D1x |
| 50 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 1750 | 5250 | 3.0 | 30 | 4.5 | 33.5 | 4 | PF506%90340D1x |
| 15 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 300 | 900 | 22 | 35 | 22.5 | 5.5 | 4 | PF156%90540D1x |
| 20 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 400 | 1200 | 13.5 | 35 | 19.8 | 7.5 | 4 | PF206%90540D1x |
| 25 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 500 | 1500 | 11.5 | 35 | 16.1 | 9.0 | 4 | PF256%90540D1x |
| 30 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 600 | 1800 | 10 | 35 | 12.4 | 11.0 | 4 | PF306%90540D1x |
| 35 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 700 | 2100 | 9.0 | 35 | 10.7 | 12.5 | 4 | PF356%90540D1x |
| 40 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 800 | 2400 | 7.5 | 35 | 9.5 | 14.5 | 4 | PF406%90540D1x |
| 45 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 900 | 2700 | 6.8 | 35 | 8.6 | 16.0 | 4 | PF456%90540D1x |
| 50 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 1000 | 3000 | 6.4 | 35 | 7.2 | 18.0 | 4 | PF506%90540D1x |
| 55 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 5.6 | 35 | 6.7 | 20.0 | 4 | PF556%90540D1x |
| 60 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1200 | 3600 | 4.8 | 35 | 6.8 | 21.5 | 4 | PF606%90540D1x |
| 65 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1300 | 3900 | 4.5 | 35 | 6.3 | 23.0 | 4 | PF656%90540D1x |
| 70 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1400 | 4200 | 4.0 | 35 | 6.0 | 25.0 | 4 | PF706%90540D1x |
| 75 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1500 | 4500 | 3.9 | 35 | 5.9 | 25.5 | 4 | PF756%90540D1x |
| 80 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1600 | 4800 | 3.8 | 35 | 5.6 | 26.5 | 4 | PF806%90540D1x |
| 85 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1700 | 5100 | 3.6 | 35 | 5.1 | 28.5 | 4 | PF856%90540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1000VDC (10)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/ μ s) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | I _{rms} 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 1 | 32 | 18 | 9 | 27.5 | - | 0.8 | 75 | 75 | 225 | 65.0 | 25 | 57.7 | 2.0 | 2 | PF105%10220D1x |
| 2 | 32 | 22 | 13 | 27.5 | - | 0.8 | 75 | 150 | 450 | 38.0 | 25 | 32.2 | 3.5 | 2 | PF205%10220D1x |
| 3 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 75 | 225 | 675 | 22.0 | 25 | 27.3 | 5.0 | 2 | PF305%10220D1x |
| 4 | 32 | 30 | 16 | 27.5 | - | 0.8 | 75 | 300 | 900 | 16.5 | 25 | 18.6 | 7.0 | 2 | PF405%10220D1x |
| 5 | 32 | 33 | 18 | 27.5 | - | 0.8 | 75 | 375 | 1125 | 12.5 | 25 | 16.6 | 8.5 | 2 | PF505%10220D1x |
| 6 | 32 | 33 | 18 | 27.5 | - | 0.8 | 75 | 450 | 1350 | 11.5 | 25 | 16.1 | 9.0 | 2 | PF605%10220D1x |
| 7 | 32 | 37 | 22 | 27.5 | - | 0.8 | 75 | 525 | 1575 | 11.0 | 25 | 15.1 | 9.5 | 2 | PF705%10221D1x |
| 7 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 75 | 525 | 1575 | 9.8 | 25 | 11.6 | 11.5 | 4 | PF705%10242D1x |
| 8 | 32 | 37 | 22 | 27.5 | - | 0.8 | 75 | 600 | 1800 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF805%10221D1x |
| 8 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 75 | 600 | 1800 | 8.8 | 25 | 10.1 | 13.0 | 4 | PF805%10242D1x |
| 5 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 175 | 525 | 28.0 | 28 | 37.1 | 3.8 | 2 | PF505%10320D1x |
| 6 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 210 | 630 | 25.0 | 28 | 29.6 | 4.5 | 2 | PF605%10320D1x |
| 7 | 42 | 30 | 17 | 37.5 | - | 1.0 | 35 | 245 | 735 | 22.0 | 28 | 27.3 | 5.0 | 2 | PF705%10320D1x |
| 8 | 42 | 32 | 19 | 37.5 | - | 1.0 | 35 | 280 | 840 | 19.5 | 28 | 21.4 | 6.0 | 2 | PF805%10320D1x |
| 10 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 35 | 350 | 1050 | 13.0 | 30 | 20.5 | 7.5 | 4 | PF106%10340D1x |
| 12 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 35 | 420 | 1260 | 11.5 | 30 | 16.1 | 9.0 | 4 | PF126%10340D1x |
| 15 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 35 | 525 | 1575 | 10.0 | 30 | 11.3 | 11.5 | 4 | PF156%10340D1x |
| 18 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 630 | 1890 | 7.8 | 30 | 9.8 | 14.0 | 4 | PF186%10340D1x |
| 20 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 35 | 700 | 2100 | 7.0 | 30 | 8.9 | 15.5 | 4 | PF206%10340D1x |
| 25 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 35 | 875 | 2625 | 5.5 | 30 | 7.2 | 19.5 | 4 | PF256%10340D1x |
| 30 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1050 | 3150 | 4.6 | 30 | 6.2 | 23.0 | 4 | PF306%10340D1x |
| 35 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 35 | 1225 | 3675 | 4.0 | 30 | 6.0 | 25.0 | 4 | PF356%10340D1x |
| 40 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 35 | 1400 | 4200 | 3.6 | 30 | 5.1 | 28.5 | 4 | PF406%10340D1x |
| 15 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 300 | 900 | 19.8 | 35 | 22.5 | 5.8 | 4 | PF156%10540D1x |
| 20 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 400 | 1200 | 13.5 | 35 | 19.8 | 7.5 | 4 | PF206%10540D1x |
| 25 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 500 | 1500 | 11.0 | 35 | 15.1 | 9.5 | 4 | PF256%10540D1x |
| 30 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 600 | 1800 | 9.8 | 35 | 11.6 | 11.5 | 4 | PF306%10540D1x |
| 35 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 700 | 2100 | 8.0 | 35 | 10.3 | 13.5 | 4 | PF356%10540D1x |
| 40 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 800 | 2400 | 7.0 | 35 | 8.9 | 15.5 | 4 | PF406%10540D1x |
| 45 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 900 | 2700 | 6.2 | 35 | 7.9 | 17.5 | 4 | PF456%10540D1x |
| 50 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1000 | 3000 | 5.8 | 35 | 6.8 | 19.5 | 4 | PF506%10540D1x |
| 55 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 5.0 | 35 | 6.8 | 21.0 | 4 | PF556%10540D1x |
| 60 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1200 | 3600 | 4.6 | 35 | 6.2 | 23.0 | 4 | PF606%10540D1x |
| 65 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1300 | 3900 | 4.2 | 35 | 5.7 | 25.0 | 4 | PF656%10540D1x |
| 70 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1400 | 4200 | 3.8 | 35 | 5.4 | 27.0 | 4 | PF706%10540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1100VDC (11)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | I _{rms} 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 1 | 32 | 20 | 11 | 27.5 | - | 0.8 | 80 | 80 | 240 | 65.0 | 25 | 47.7 | 2.2 | 2 | PF105%11220D1x |
| 1.5 | 32 | 22 | 13 | 27.5 | - | 0.8 | 80 | 120 | 360 | 46.0 | 25 | 52.2 | 2.5 | 2 | PF155%11220D1x |
| 2 | 32 | 24.5 | 13 | 27.5 | - | 0.8 | 80 | 160 | 480 | 24.5 | 25 | 26.6 | 4.8 | 2 | PF205%11220D1x |
| 3 | 32 | 30 | 16 | 27.5 | - | 0.8 | 80 | 240 | 720 | 18.5 | 25 | 19.2 | 6.5 | 2 | PF305%11220D1x |
| 4 | 32 | 33 | 18 | 27.5 | - | 0.8 | 80 | 320 | 960 | 12.5 | 25 | 16.6 | 8.5 | 2 | PF405%11220D1x |
| 5 | 32 | 37 | 22 | 27.5 | - | 0.8 | 80 | 400 | 1200 | 10.8 | 25 | 14.5 | 9.8 | 2 | PF505%11221D1x |
| 5 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 80 | 400 | 1200 | 10.5 | 25 | 13.0 | 10.5 | 4 | PF505%11242D1x |
| 6 | 32 | 37 | 22 | 27.5 | - | 0.8 | 80 | 480 | 1440 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF605%11221D1x |
| 6 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 80 | 480 | 1440 | 8.8 | 25 | 10.1 | 13.0 | 4 | PF605%11242D1x |
| 3 | 42 | 30 | 17 | 37.5 | - | 1.0 | 40 | 120 | 360 | 46.0 | 28 | 52.2 | 2.5 | 2 | PF305%11320D1x |
| 4 | 42 | 30 | 17 | 37.5 | - | 1.0 | 40 | 160 | 480 | 32.5 | 28 | 37.7 | 3.5 | 2 | PF405%11320D1x |
| 4.7 | 42 | 32 | 19 | 37.5 | - | 1.0 | 40 | 188 | 564 | 28.0 | 28 | 33.5 | 4.0 | 2 | PF475%11320D1x |
| 5 | 42 | 32 | 19 | 37.5 | - | 1.0 | 40 | 200 | 600 | 26.0 | 28 | 32.7 | 4.2 | 2 | PF505%11320D1x |
| 6 | 42 | 32 | 19 | 37.5 | - | 1.0 | 40 | 240 | 720 | 23.5 | 28 | 25.5 | 5.0 | 2 | PF605%11320D1x |
| 7 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 40 | 280 | 840 | 18.5 | 30 | 22.5 | 6.0 | 4 | PF705%11340D1x |
| 8 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 40 | 320 | 960 | 16.5 | 30 | 21.5 | 6.5 | 4 | PF805%11340D1x |
| 9 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 40 | 360 | 1080 | 13.0 | 30 | 20.5 | 7.5 | 4 | PF905%11340D1x |
| 10 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 40 | 400 | 1200 | 12.0 | 30 | 17.3 | 8.5 | 4 | PF106%11340D1x |
| 12 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 40 | 480 | 1440 | 10.8 | 30 | 13.9 | 10.0 | 4 | PF126%11340D1x |
| 14 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 40 | 560 | 1680 | 9.5 | 30 | 11.0 | 12.0 | 4 | PF146%11340D1x |
| 15 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 40 | 600 | 1800 | 8.5 | 30 | 10.4 | 13.0 | 4 | PF156%11340D1x |
| 18 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 40 | 720 | 2160 | 7.0 | 30 | 9.5 | 15.0 | 4 | PF186%11340D1x |
| 20 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 40 | 800 | 2400 | 6.5 | 30 | 8.5 | 16.5 | 4 | PF206%11340D1x |
| 25 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 40 | 1000 | 3000 | 5.0 | 30 | 7.1 | 20.5 | 4 | PF256%11340D1x |
| 30 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 40 | 1200 | 3600 | 4.3 | 30 | 5.8 | 24.5 | 4 | PF306%11340D1x |
| 15 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 20 | 300 | 900 | 16.5 | 35 | 21.5 | 6.5 | 4 | PF156%11540D1x |
| 20 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 20 | 400 | 1200 | 11.5 | 35 | 16.1 | 9.0 | 4 | PF206%11540D1x |
| 25 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 500 | 1500 | 10.0 | 35 | 12.4 | 11.0 | 4 | PF256%11540D1x |
| 30 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 20 | 600 | 1800 | 8.6 | 35 | 10.3 | 13.0 | 4 | PF306%11540D1x |
| 35 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 700 | 2100 | 7.5 | 35 | 9.5 | 14.5 | 4 | PF356%11540D1x |
| 40 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 800 | 2400 | 6.8 | 35 | 8.6 | 16.0 | 4 | PF406%11540D1x |
| 45 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 20 | 900 | 2700 | 6.2 | 35 | 7.9 | 17.5 | 4 | PF456%11540D1x |
| 50 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1000 | 3000 | 5.6 | 35 | 7.0 | 19.5 | 4 | PF506%11540D1x |
| 55 | 58 | 65 | 45 | 52.5 | 20.3 | 1.2 | 20 | 1100 | 3300 | 4.8 | 35 | 6.8 | 21.5 | 4 | PF556%11540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 1200VDC (12)

| CAP (μ F) | Dimensions (mm) | | | | | | dv/dt (V/us) | Peak Current (A) | Surge Current (A) | ESR 10KHz (m Ω) | ESL (nH) | Thermal Res ($^{\circ}$ C/W) | I _{rms} 10KHz 70 $^{\circ}$ C (A) | No of Pin | Part Number |
|-------------------|-----------------|------|----|------|------|-----|-----------------|------------------------|-------------------------|-------------------------------|-------------|-------------------------------------|---|--------------|----------------|
| | L | H | T | P | P1 | d | | | | | | | | | |
| 1 | 32 | 20 | 11 | 27.5 | - | 0.8 | 90 | 90 | 270 | 35.0 | 25 | 35.0 | 3.5 | 2 | PF105%12220D1x |
| 2 | 32 | 24.5 | 15 | 27.5 | - | 0.8 | 90 | 180 | 540 | 24.0 | 25 | 25.0 | 5.0 | 2 | PF205%12220D1x |
| 3 | 32 | 30 | 16 | 27.5 | - | 0.8 | 90 | 270 | 810 | 13.0 | 25 | 20.5 | 7.5 | 2 | PF305%12220D1x |
| 4 | 32 | 33 | 18 | 27.5 | - | 0.8 | 90 | 360 | 1080 | 11.0 | 25 | 15.1 | 9.5 | 2 | PF405%12220D1x |
| 5 | 32 | 37 | 22 | 27.5 | - | 0.8 | 90 | 450 | 1350 | 10.5 | 25 | 13.0 | 10.5 | 2 | PF505%12221D1x |
| 5 | 32 | 37 | 22 | 27.5 | 10.2 | 1.0 | 90 | 450 | 1350 | 9.5 | 25 | 11.0 | 12.0 | 4 | PF505%12242D1x |
| 3 | 42 | 30 | 17 | 37.5 | - | 1.0 | 45 | 135 | 405 | 35.0 | 28 | 41.9 | 3.2 | 2 | PF305%12320D1x |
| 4 | 42 | 30 | 17 | 37.5 | - | 1.0 | 45 | 180 | 540 | 28.0 | 28 | 30.4 | 4.2 | 2 | PF405%12320D1x |
| 5 | 42 | 32 | 19 | 37.5 | - | 1.0 | 45 | 225 | 675 | 21.5 | 28 | 23.1 | 5.5 | 2 | PF505%12320D1x |
| 6 | 42 | 40 | 20 | 37.5 | 10.2 | 1.2 | 45 | 270 | 810 | 16.5 | 30 | 21.5 | 6.5 | 4 | PF605%12340D1x |
| 7 | 42 | 37 | 22 | 37.5 | 10.2 | 1.2 | 45 | 315 | 945 | 13.0 | 30 | 20.5 | 7.5 | 4 | PF705%12340D1x |
| 8 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 45 | 360 | 1080 | 12.0 | 30 | 17.3 | 8.5 | 4 | PF805%12340D1x |
| 9 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 45 | 405 | 1215 | 10.8 | 30 | 13.9 | 10.0 | 4 | PF905%12340D1x |
| 10 | 42 | 44 | 24 | 37.5 | 10.2 | 1.2 | 45 | 450 | 1350 | 10.0 | 30 | 12.4 | 11.0 | 4 | PF106%12340D1x |
| 12 | 42 | 45 | 30 | 37.5 | 20.3 | 1.2 | 45 | 540 | 1620 | 8.5 | 30 | 10.4 | 13.0 | 4 | PF126%12340D1x |
| 15 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 45 | 675 | 2025 | 6.8 | 30 | 8.6 | 16.0 | 4 | PF156%12340D1x |
| 18 | 42 | 50 | 35 | 37.5 | 20.3 | 1.2 | 45 | 810 | 2430 | 6.2 | 30 | 7.5 | 18.0 | 4 | PF186%12340D1x |
| 20 | 42 | 55 | 40 | 37.5 | 20.3 | 1.2 | 45 | 900 | 2700 | 5.5 | 30 | 6.8 | 20.0 | 4 | PF206%12340D1x |
| 25 | 42 | 60 | 45 | 37.5 | 20.3 | 1.2 | 45 | 1125 | 3375 | 4.3 | 30 | 5.6 | 25.0 | 4 | PF256%12340D1x |
| 12 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 25 | 300 | 900 | 16.5 | 35 | 21.5 | 6.5 | 4 | PF126%12540D1x |
| 15 | 57.5 | 45 | 25 | 52.5 | 10.2 | 1.2 | 25 | 375 | 1125 | 13.0 | 35 | 20.5 | 7.5 | 4 | PF156%12540D1x |
| 20 | 57.5 | 45 | 30 | 52.5 | 20.3 | 1.2 | 25 | 500 | 1500 | 10.0 | 35 | 12.4 | 11.0 | 4 | PF206%12540D1x |
| 25 | 57.5 | 50 | 35 | 52.5 | 20.3 | 1.2 | 25 | 625 | 1875 | 8.6 | 35 | 10.3 | 13.0 | 4 | PF256%12540D1x |
| 30 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 25 | 750 | 2250 | 7.5 | 35 | 9.5 | 14.5 | 4 | PF306%12540D1x |
| 35 | 57.5 | 55 | 45 | 52.5 | 20.3 | 1.2 | 25 | 875 | 2625 | 6.8 | 35 | 8.6 | 16.0 | 4 | PF356%12540D1x |
| 40 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 25 | 1000 | 3000 | 5.5 | 35 | 6.8 | 20.0 | 4 | PF406%12540D1x |
| 45 | 57.5 | 65 | 45 | 52.5 | 20.3 | 1.2 | 25 | 1125 | 3375 | 4.8 | 35 | 6.2 | 22.5 | 4 | PF456%12540D1x |

Note: % denoted to tolerance: \pm 5%(J), \pm 10%(K), \pm 20%(M) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ENVIRONMENTAL TEST

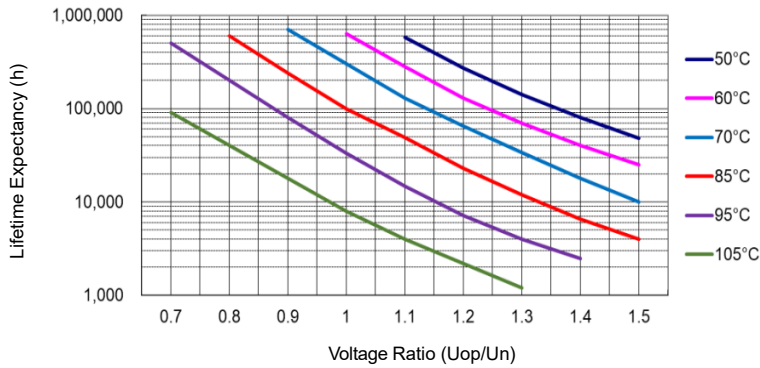
| Item | Test Condition | Performance | | | | | | | | | | | |
|----------------------------------|--|--|---|-----------------|-----------|---------|-----|-----|---|---------|----|-----|-------------------|
| High Temperature Loading | Temperature: +85 ±2 °C, Apply 130% of Rated Voltage for 1,000 +24/0 hours. Duration: 500 hours 1000 charges and discharges at 1.4 x I peak (Maximum respective peak current in continuous operation) | ΔC/C: ≤ ± 5% DF: ≤ 50*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: ≤ ± 2% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | |
| Humidity Resistance | Temperature: +40±2°C, RH: 90% to 95% Duration: 1344 +24/0 hours | ΔC/C: ≤ ± 2% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | |
| Solderability | Soldering temperature: +245 ±5°C, Immersion duration: 2 ±0.5 sec | 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 sec, Depth: 1.5 ±0.5 mm Soldering Temperature: +400°C, Immersion Duration: ≤3 sec Stabilized for 1.5 ±0.5hr at ordinary condition before measurements | ΔC/C: ≤ ± 0.5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | |
| Resistance to Solvent | Solvent: propanol (isopropyl alcohol) Temperature: 23 ±5°C, Immersion time: 5 ±0.5 minutes, Drying time: 5 minutes Mechanical treatment: 10 rubbing (with cotton-wool) | ΔC/C: ≤ ± 1% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit | | | | | | | | | | | |
| Terminal Strength | <table border="1"> <thead> <tr> <th>Item</th> <th>D ≤0.80mm</th> <th>0.80 < D ≤1.2mm</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 | D ≤0.80mm | 0.80 < D ≤1.2mm | Condition | Tension | 10N | 20N | Make two successive bends in each direction | Bending | 5N | 10N | No visible damage |
| Item | D ≤0.80mm | 0.80 < D ≤1.2mm | Condition | | | | | | | | | | |
| Tension | 10N | 20N | Make two successive bends in each direction | | | | | | | | | | |
| Bending | 5N | 10N | | | | | | | | | | | |
| Vibration Resistance | Frequency Change: 10--55--10 Hz, Vibration Distance: 1.5 mm Direction: X, Y, Z, Duration: 2 +1/0 hours each direction | | | | | | | | | | | | |
| Mechanical Shock | Pulse-shape: half-sine wave, Acceleration: 500 m/s ² , Duration of pulse: 11 ms | ΔC/C: ≤ ± 1% DF: ≤ 50*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:

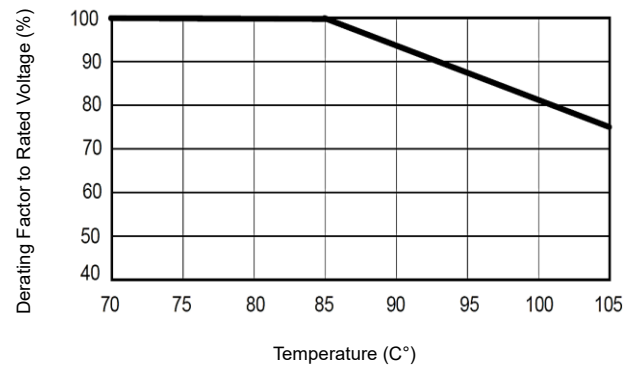
1. Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
2. Storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around
3. Do not apply and exceeding vibration, shock (dropping) and pressure
4. Reference Standards: IEC 60068-2, IEC 61071, IEC 68-2

CHARACTERISTIC CURVE

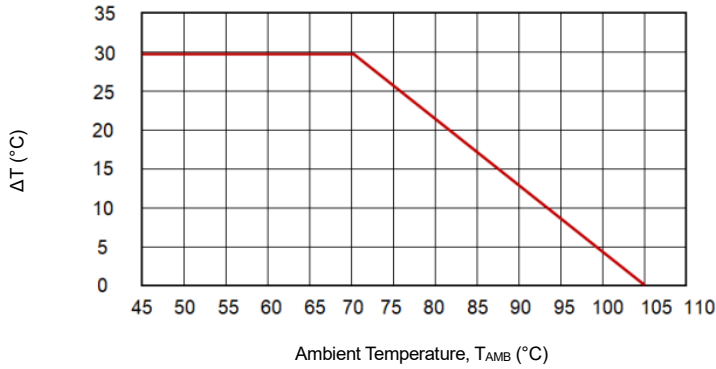
Lifetime Expectancy



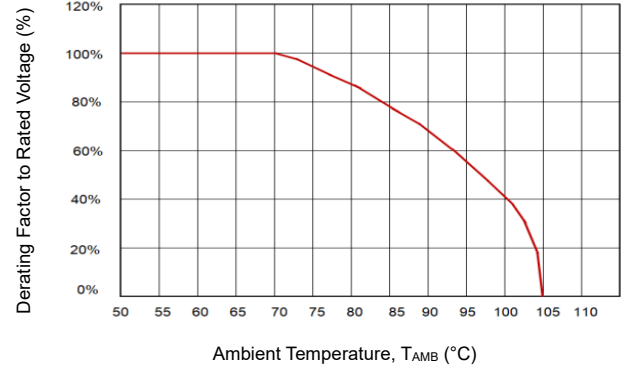
Rated Voltage vs Temperature



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



Maximum I_{RMS} Vs Ambient Temperature (T_{AMB})



*Specifications subject to change without notice.