

1. INTRODUCTION

HITANO XL series are manufactured by using environmental friendly material with special interior design to realize wide capacitance and high voltage performance.

2. FEATURES

- A. Special interior design offers wide voltage range from 50V to 10KVdc
- B. A wide selection of sizes is available (2020 to 13060).
- C. Wide capacitances from 1000pF to 47uF
- D. Low resistance and high precision.
- E. High reliability and stability.
- F. RoHS & HALOGEN compliant.

3. APPLICATIONS

- A. High power SMPS.
- B. Industrial application.
- C. Isolations.
- D. Radioactive detector.
- E. DC to DC converter.
- F. Medical equipment.

4. ELECTRICAL DATA

| | | |
|-------------------------------------|---|-----------------------------|
| Dielectric | NPO(C0G) / X7R | |
| Rated voltage(WV) | 50Vdc ~ 10KVdc | |
| Capacitance range | 1000pF ~ 47uF | |
| Capacitance tolerance | J (±5%), K (±10%), M (±20%) | |
| Dissipation factor (Tan δ) | ≤ 2.5% | |
| Insulation resistance | ≥ 100GΩ or R*C ≥ 1000Ω-F whichever is smaller | |
| Dielectric Withstand Voltage | Rated voltage (U _R) < 500V | 2.0 times of U _R |
| | 500V ≤ Rated voltage (U _R) < 1KV | 1.5 times of U _R |
| | 1KV ≤ Rated voltage (U _R) < 5KV | 1.2 times of U _R |
| | 5KV ≤ Rated voltage (U _R) < 10KV | 1.0 times of U _R |
| Operating temperature | -55°C ~ +125°C | |
| Temperature coefficient | ±15% | |
| Termination | Ag/Ni/Sn(Lead free) | |

PRODUCT MAP SIZE 2020 to 13060

| R.V. T.C. Size(In.) | 50V | | 100V | | 200V/250V | | 500V/630V | | 1000V | |
|---------------------------|----------|-----|----------|-----|-----------|-----|-----------|-----|----------|-----|
| | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R |
| 2020 | 393 | 565 | 153 | 475 | 822 | 225 | 472 | 334 | 332 | 683 |
| 3035 | 683 | 106 | 473 | 825 | 273 | 275 | 822 | 135 | 472 | 124 |
| 3333 | 823 | 825 | 563 | 475 | 333 | 335 | 822 | 125 | 562 | 124 |
| 3530 | 104 | 825 | 683 | 475 | 393 | 475 | 103 | 125 | 682 | 154 |
| 3640 | 124 | 825 | 823 | 565 | 473 | 475 | 103 | 225 | 822 | 154 |
| 3940 | 154 | 825 | 104 | 655 | 563 | 565 | 123 | 225 | 103 | 184 |
| 4045 | 154 | 106 | 104 | 685 | 563 | 565 | 123 | 225 | 123 | 184 |
| 4238 | 184 | 106 | 124 | 685 | 683 | 565 | 223 | 335 | 223 | 224 |
| 4252 | 184 | 106 | 124 | 685 | 683 | 685 | 223 | 335 | 333 | 224 |
| 4540 | 184 | 126 | 124 | 685 | 683 | 685 | 273 | 335 | 473 | 274 |
| 4545 | 184 | 126 | 124 | 685 | 683 | 685 | 273 | 475 | 563 | 274 |
| 5530 | 224 | 126 | 154 | 685 | 823 | 825 | 334 | 475 | 683 | 334 |
| 5540 | 224 | 156 | 154 | 685 | 823 | 825 | 104 | 475 | 683 | 334 |
| 5550 | 224 | 156 | 154 | 825 | 823 | 825 | 124 | 565 | 823 | 394 |
| 5780 | 274 | 156 | 184 | 106 | 104 | 106 | 154 | 565 | 823 | 394 |
| 5868 | 274 | 156 | 184 | 106 | 104 | 106 | 154 | 565 | 823 | 474 |
| 6560 | 274 | 186 | 184 | 126 | 104 | 106 | 184 | 685 | 104 | 474 |
| 7680 | 334 | 186 | 224 | 126 | 124 | 126 | 224 | 685 | 104 | 564 |
| 7875 | 394 | 186 | 274 | 156 | 154 | 126 | 334 | 685 | 124 | 564 |
| 7880 | 474 | 186 | 334 | 156 | 184 | 126 | 394 | 825 | 224 | 684 |
| 8550 | 564 | 186 | 394 | 186 | 224 | 156 | 474 | 825 | --- | 684 |
| 8840 | 564 | 226 | 394 | 186 | 224 | 156 | 474 | 825 | --- | 824 |
| 42102 | 684 | 276 | 474 | 226 | 274 | 186 | 564 | 106 | --- | 824 |
| 10642 | 684 | 336 | 474 | 226 | 274 | 186 | 684 | 106 | --- | 105 |
| 10662 | 824 | 396 | 564 | 276 | 334 | 226 | 684 | 106 | --- | 105 |
| 13060 | 824 | 476 | 684 | 276 | 394 | 226 | 824 | 106 | --- | 125 |
| R.V. T.C. Size(In.) | 2000V | | 3000V | | 4000V | | 5000V | | 6000V | |
| | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R |
| 2020 | 152 | 682 | 102 | 222 | 471 | 102 | 271 | 821 | 101 | 681 |
| 3035 | 222 | 103 | 152 | 332 | 681 | 152 | 561 | 122 | 181 | 102 |
| 3333 | 472 | 123 | 152 | 392 | 821 | 182 | 561 | 122 | 181 | 102 |
| 3530 | 562 | 123 | 222 | 392 | 102 | 182 | 681 | 152 | 221 | 122 |
| 3640 | 472 | 153 | 222 | 472 | 122 | 222 | 681 | 152 | 221 | 122 |
| 3940 | 682 | 153 | 332 | 472 | 222 | 222 | 821 | 182 | 271 | 152 |
| 4045 | 822 | 183 | 472 | 682 | 272 | 272 | 821 | 182 | 271 | 152 |
| 4238 | 103 | 183 | 472 | 682 | 332 | 272 | 102 | 222 | 331 | 182 |
| 4252 | 223 | 223 | 562 | 822 | 472 | 332 | 102 | 222 | 331 | 182 |
| 4540 | 333 | 223 | 562 | 822 | 562 | 332 | 222 | 272 | 471 | 222 |
| 4545 | 333 | 273 | 682 | 103 | 682 | 392 | 222 | 272 | 471 | 222 |
| 5530 | 333 | 273 | 682 | 103 | 822 | 392 | 272 | 332 | 561 | 272 |
| 5540 | 333 | 333 | 822 | 123 | 103 | 472 | 272 | 332 | 561 | 272 |
| 5550 | 333 | 393 | 822 | 123 | 123 | 472 | 332 | 392 | 681 | 332 |
| 5780 | 473 | 393 | 103 | 153 | 153 | 562 | 332 | 392 | 681 | 332 |
| 5868 | 473 | 473 | 103 | 153 | 153 | 562 | 472 | 472 | 821 | 392 |
| 6560 | 473 | 473 | 223 | 183 | 183 | 682 | 472 | 472 | 821 | 392 |
| 7680 | 563 | 563 | 223 | 183 | 223 | 682 | 562 | 562 | 102 | 472 |
| 7875 | 823 | 563 | 333 | 223 | 333 | 822 | 682 | 562 | 122 | 472 |
| 7880 | 124 | 683 | 473 | 273 | 473 | 822 | 822 | 682 | 152 | 562 |
| 8550 | --- | 683 | --- | 273 | --- | 103 | --- | 682 | --- | 562 |
| 8840 | --- | 823 | --- | 333 | --- | 103 | --- | 822 | --- | 682 |
| 42102 | --- | 823 | --- | 333 | --- | 123 | --- | 822 | --- | 682 |
| 10642 | --- | 104 | --- | 393 | --- | 123 | --- | 103 | --- | 822 |
| 10662 | --- | 104 | --- | 393 | --- | 153 | --- | 103 | --- | 822 |
| 13060 | --- | 124 | --- | 473 | --- | 153 | --- | 123 | --- | 103 |

| R.V. T.C. Size(In.) | 7000V | | 8000V | | 10000V | |
|---------------------------|----------|-----|----------|-----|----------|-----|
| | NPO/ C0G | X7R | NPO/ C0G | X7R | NPO/ C0G | X7R |
| 3530 | 181 | 102 | 151 | 821 | 121 | --- |
| 3640 | 181 | 102 | 151 | 821 | 121 | --- |
| 3940 | 221 | 122 | 181 | 102 | 151 | --- |
| 4045 | 221 | 122 | 181 | 102 | 151 | --- |
| 4238 | 271 | 152 | 221 | 122 | 181 | --- |
| 4252 | 271 | 152 | 221 | 122 | 181 | --- |
| 4540 | 331 | 182 | 271 | 152 | 221 | --- |
| 4545 | 331 | 182 | 271 | 152 | 221 | --- |
| 5530 | 471 | 222 | 331 | 182 | 271 | --- |
| 5540 | 471 | 222 | 331 | 182 | 271 | --- |
| 5550 | 561 | 272 | 471 | 222 | 331 | --- |
| 5780 | 561 | 272 | 471 | 222 | 331 | --- |
| 5868 | 681 | 332 | 561 | 272 | 471 | --- |
| 6560 | 681 | 332 | 561 | 272 | 471 | --- |
| 7680 | 821 | 392 | 681 | 332 | 561 | --- |
| 7875 | 821 | 392 | 681 | 332 | 561 | --- |
| 7880 | 102 | 472 | 821 | 392 | 681 | 182 |
| 8550 | --- | 472 | --- | 392 | --- | 182 |
| 8840 | --- | 562 | --- | 472 | --- | 222 |
| 42102 | --- | 562 | --- | 472 | --- | 222 |
| 10642 | --- | 682 | --- | 562 | --- | 272 |
| 10662 | --- | 682 | --- | 562 | --- | 272 |
| 13060 | | 822 | | 682 | | 332 |

*Two significant digits followed by no. of zeros. And R is in place of decimal point.

Example: **100=10x100 =10pF** **106=10x106 =10μF**

*Above road map for selection reference only. Please reconfirm with us availability of the item you required

*If you do not find the capacitor you need please make contact with us. We can customize any dimension and capacitance per your requirement for your application.