

# CERAMIC CAPACITORS

## How To Order

**J 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**

**SERIES**  
 1-AC Y1  
 2-AC Y2  
 3-CLASS I  
 4-CLASS II  
 5-CLASS III

**FOOT TYPE**  
 A-HIGH SEATED  
 S-STRAIGHT LEAD  
 O-OUTWARD KINK  
 I-INSIDE KINK  
 ASSEMBLY  
 K-UP/DOWN KINK  
 AL:AXIAL  
 (FOR HIGH VOLTAGE)  
 ≥40KVDC

**COATING**  
 D:DUREZ  
 E:EPOXY BLUE  
 Y:EPOXY  
 YELLOW

**WORKING VOLTAGE**  
 1C~16VDC  
 1E~25VDC  
 1H~50VDC  
 1J~63VDC  
 2A~100VDC  
 2E~250VDC  
 2G~400VDC  
 2H~500VDC  
 3A~1000VDC  
 1KVDC  
 3D~2000VDC  
 2KVDC  
 3E~2500VDC  
 2.5KVDC  
 3F~3000VDC  
 3KVDC  
 3G~4000VDC  
 4KVDC  
 3H~5000VDC  
 5KVDC  
 3J~6300VDC  
 (6000VDC)  
 6KVDC  
 3K~8000VDC  
 8KVDC  
 4A~10000VDC  
 10KVDC  
 4B~12000VDC  
 12KVDC  
 4C~15000VDC  
 15KVDC  
 4P~18KVDC  
 4D~20000VDC  
 20KVDC  
 4E~25KVDC  
 4F~30KVDC  
 4V~35KVDC  
 4G~40KVDC  
 4W~45KVDC  
 4H~50KVDC  
 4J~63KVDC  
 4K~80KVDC  
 5A~100KVDC  
 5B~125KVDC  
 5C~160KVDC  
 5D~200KVDC  
 5E~250KVDC

**TEMPERATURE CHARACTERISTIC**  
 NPO — NPO I  
 N75 — N750 I  
 SLO — SL I  
 2SL — 2SL I  
 X7R — X7R II  
 Y5E — Y5E II  
 Y5P — Y5P II III  
 Y5R — Y5R II  
 BNH — BN II  
 Y5T — Y5T II  
 Y5U — Y5U II III  
 Y5V — Y5V II III  
 Z5U — Z5U II  
 Z5V — Z5V II

**FOOT LENGTH**  
 3:3 mm ±1mm  
 4:4 mm ±1mm  
 5:5 mm ±1mm  
 7:7 mm ±1mm  
 8:8 mm ±1mm  
 0:10mm ±1mm  
 M:17mm ±2mm  
 L:25mm ±2mm  
 S:35mm ±2mm  
 X:50mm ±2mm  
 T:Taping ±2mm

**PITCH ±0.8mm**  
 3:2.5mm  
 5:5.0mm  
 6:6.35mm  
 7:7.5mm  
 9:9.5(10) mm  
 1:12.5mm  
 4:15mm  
 2:20mm  
 H:OTHER(AXIAL OR SPACIAL TYPE)

**TOLERANCE**  
 C=±0.25PF  
 D=±0.5PF  
 G=±2%  
 J=±5%  
 K=10%  
 M=±20%  
 Z=+80-20%

**N:RoHS**

## Y2 Series 跨接抑制突波電容器 (X1Y2) Rated 400VAC X1Y2

TYPE NUMBER	O.T.	T.C.	CAP.	TOL.	DIMENSION(mm)		
					D max	F	T max
ZE 1R0D X7R Y2	-25°C ~ +125°C	±15% (X7R)	1PF	±0.5PF	7	5.0/7.5-1	6
ZE 1R5D X7R Y2			1.5PF		7	5.0/7.5-1	6
ZE 2R2D X7R Y2			2.2PF		7	5.0/7.5-1	6
ZE 3R3D X7R Y2			3.3PF		7	5.0/7.5-1	6
ZE 4R7D X7R Y2			4.7PF		7	5.0/7.5-1	6
ZE 5R8D X7R Y2			5.8PF		7	5.0/7.5-1	6
ZE 6R8D X7R Y2			6.8PF		7	5.0/7.5-1	6
ZE 8R2D X7R Y2			8.2PF		7	5.0/7.5-1	6
ZE 10R0 X7R Y2			10PF		7	5.0/7.5-1	6
ZE 150K X7R Y2			150PF		7	5.0/7.5-1	6
ZE 220K X7R Y2			220PF		7	5.0/7.5-1	6
ZE 330K X7R Y2			330PF		7	5.0/7.5-1	6
ZE 470K X7R Y2			470PF		7	5.0/7.5-1	6
ZE 560K X7R Y2			560PF		7	5.0/7.5-1	6
ZE 680K X7R Y2			680PF		7	5.0/7.5-1	6
ZE 820K X7R Y2			820PF		7	5.0/7.5-1	6
ZE 101K X7R Y2			100PF		7	5.0/7.5-1	6
ZE 151K X7R Y2			150PF		7	7.5-1	6
ZE 221K X7R Y2			220PF		7	7.5-1	6
ZE 331K X7R Y2			330PF		8	7.5-1	6
ZE 471K X7R Y2	470PF	8	7.5-1	6			
ZE 561K X7R Y2	560PF	8	7.5-1	6			
ZE 681K X7R Y2	680PF	10	7.5-1	6			
ZE 821K X7R Y2	820PF	11	7.5-1	6			
ZE 102K X7R Y2	1000PF	12	7.5-1	6			
ZE 152K X7R Y2	1500PF	14	10/7.5-1	6			
ZE 222K X7R Y2	2200PF	16	10/7.5-1	6			
ZE 332K X7R Y2	3300PF	17	10/7.5-1	6			
ZE 472K X7R Y2	4700PF	18	10/7.5-1	6			
ZE 562K X7R Y2	5600PF	20	10/7.5-1	6			
ZE 1R0D Y5P Y2	-25°C ~ +125°C	+10% (Y5P)	1PF	±0.5PF	7	5.0/7.5-1	6
ZE 1R5D Y5P Y2			1.5PF		7	5.0/7.5-1	6
ZE 2R2D Y5P Y2			2.2PF		7	5.0/7.5-1	6
ZE 3R3D Y5P Y2			3.3PF		7	5.0/7.5-1	6
ZE 4R7D Y5P Y2			4.7PF		7	5.0/7.5-1	6
ZE 5R8D Y5P Y2			5.8PF		7	5.0/7.5-1	6
ZE 6R8D Y5P Y2			6.8PF		7	5.0/7.5-1	6
ZE 8R2D Y5P Y2			8.2PF		7	5.0/7.5-1	6
ZE 10R0 Y5P Y2			10PF		7	5.0/7.5-1	6
ZE 150K Y5P Y2			150PF		7	5.0/7.5-1	6
ZE 220K Y5P Y2			220PF		7	5.0/7.5-1	6
ZE 330K Y5P Y2			330PF		7	5.0/7.5-1	6
ZE 470K Y5P Y2			470PF		7	5.0/7.5-1	6
ZE 560K Y5P Y2			560PF		7	5.0/7.5-1	6
ZE 680K Y5P Y2			680PF		7	5.0/7.5-1	6
ZE 820K Y5P Y2			820PF		7	5.0/7.5-1	6
ZE 101K Y5P Y2			100PF		7	5.0/7.5-1	6
ZE 151K Y5P Y2			150PF		7	7.5-1	6
ZE 221K Y5P Y2			220PF		7	7.5-1	6
ZE 331K Y5P Y2			330PF		8	7.5-1	6
ZE 471K Y5P Y2	470PF	8	7.5-1	6			
ZE 561K Y5P Y2	560PF	8	7.5-1	6			
ZE 681K Y5P Y2	680PF	10	7.5-1	6			
ZE 821K Y5P Y2	820PF	11	7.5-1	6			
ZE 102K Y5P Y2	1000PF	12	7.5-1	6			
ZE 152K Y5P Y2	1500PF	13	7.5-1	6			
ZE 222K Y5P Y2	2200PF	15	7.5-1	6			
ZE 332K Y5P Y2	3300PF	16	10/7.5-1	6			
ZE 472K Y5P Y2	4700PF	18	10/7.5-1	6			
ZE 562K Y5P Y2	5600PF	18	10/7.5-1	6			
ZE 682K Y5P Y2	6800PF	20	10/7.5-1	6			
ZE 822K Y5P Y2	8200PF	26	10/7.5-1	6			
ZE 103K Y5P Y2	10000PF	26	10/7.5-1	6			
ZE 41M Y5U Y2	-25°C ~ +125°C	+22% ~ -56% (Y5U)	470PF	±20%	7	7.5-1	6
ZE 561M Y5U Y2			560PF		7	7.5-1	6
ZE 681M Y5U Y2			680PF		8	7.5-1	6
ZE 821M Y5U Y2			820PF		8	7.5-1	6
ZE 102M Y5U Y2			1000PF		9	7.5-1	6
ZE 152M Y5U Y2			1500PF		10	7.5-1	6
ZE 222M Y5U Y2			2200PF		11	7.5-1	6
ZE 332M Y5U Y2			3300PF		12	7.5-1	6
ZE 472M Y5U Y2			4700PF		13	7.5-1	6
ZE 562M Y5U Y2			5600PF		14	7.5-1	6
ZE 682M Y5U Y2	6800PF	15	7.5-1	6			
ZE 822M Y5U Y2	8200PF	16	10-1	6			
ZE 103M Y5U Y2	10000PF	22	10-1	6			
ZE 102M Y5V Y2	-25°C ~ +85°C	+22% ~ -80% (Y5V)	100PF	±20%	7	7.5-1	6
ZE 150PF Y5V Y2			150PF		7	7.5-1	6
ZE 220PF Y5V Y2			220PF		8	7.5-1	6
ZE 330PF Y5V Y2			330PF		9	7.5-1	6
ZE 470PF Y5V Y2			470PF		11	7.5-1	6
ZE 560PF Y5V Y2			560PF		12	7.5-1	6
ZE 680PF Y5V Y2			680PF		13	10-1	6
ZE 820PF Y5V Y2			820PF		14	10-1	6
ZE 1000PF Y5V Y2			1000PF		15	10-1	6
ZE 1500PF Y5V Y2			1500PF		16	10-1	6

### Dimensions and Tolerance

B=3.0mm max  
 d=0.60mm ±0.1mm  
 L=3-45mm

F=5.00 or 6.35 or 7.5 or 10 or 12.5 or 15mm ±1mm

According to customer's request and size.



## HOW TO ORDER

**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17**

**SERIES**  
 X2M  
 X1M  
 Y2M  
 MEF(MPE)  
 MSM  
 USM  
 MSC  
 MEC  
 MET  
 MEA  
 MPP  
 MSP  
 MPC  
 PPN  
 PPS  
 AMC  
 MPT  
 MPA  
 AMP  
 PEI  
 PPI  
 PSA  
 PSR  
 XYP  
 PXR  
 SXR  
 WXR  
 MPL

**TOLERANCE**  
 F~±1%  
 G~±2%  
 H~±3.5%  
 J~±5%  
 K~±10%  
 M~±20%

**WORKING VOLTAGES**  
 1H~50VDC  
 1J~63VDC  
 2A~100VDC  
 2B~125VDC/AC  
 2C~160VDC  
 2E~250VDC/AC  
 2F~300VDC/AC  
 2G~400VDC/AC  
 2J~630VDC/AC  
 3A~1000VDC  
 3B~1200VDC  
 3C~1600VDC  
 3D~2000VDC  
 3E~2500VDC  
 3F~3000VDC  
 3G~4000VDC  
 3H~5000VDC  
 3J~6300VDC

**PITCH**  
 P:3.5mm  
 Q:4.0mm  
 R:4.5mm  
 A:5.0mm  
 V:6.0mm  
 B:7.5mm  
 C:10mm  
 D:15mm  
 E:20mm  
 N:22.5mm  
 F:27.5mm  
 G:32.5mm  
 H:37.5mm  
 I:42.5mm  
 U:47.5mm  
 S:52.5mm  
 T:7.5~5mm  
 J:10~5mm  
 K:10~7.5mm  
 L:15~7.5mm  
 M:15~10mm  
 W:5 KINK 5mm  
 Z:7.5 KINK 7.5mm  
 Y:10 KINK 10mm  
 O:15 KINK 15mm  
 X:OTHER

**FOOT LENGTH**  
 3:3±0.5mm  
 4:4±0.5mm  
 5:5±0.5mm  
 6:6±0.5mm  
 7:7±0.5mm  
 8:8±0.5mm  
 0:10±0.5mm  
 Y:20±2mm  
 M:25±2mm  
 N:50±2mm  
 L:30±2mm  
 S:35±2mm  
 E:40±2mm  
 U:45±2mm  
 W:WIRE  
 X:OTHER  
 T:TAPE(AMMO)  
 R:TAPE(REEL)

**WIRE LENGTH**  
 20:20mm  
 25:25mm  
 30:30mm  
 35:35mm  
 40:40mm  
 45:45mm  
 50:50mm  
 55:55mm  
 60:60mm  
 70:70mm  
 75:75mm  
 80:80mm  
 85:85mm  
 90:90mm  
 95:95mm  
 00:100mm  
 01:110mm  
 02:120mm  
 03:130mm  
 04:140mm  
 05:150mm  
 06:160mm  
 07:170mm  
 08:180mm  
 10:200mm

**WIRE NUMBER**  
 24:24AWG  
 22:22AWG  
 20:20AWG  
 18:18AWG  
 16:16AWG  
 14:14AWG  
 12:12AWG

**FOOT TYPE**  
 S-STRAIGHTLEAD  
 O-OUTWARD KINK  
 I-INSIDE KINK

**CAPACITANCE**  
 101~100PF  
 102~0.001 μ F  
 ~1nF  
 103~0.01 μ F  
 ~10nF  
 104~0.1 μ F  
 ~100nF  
 105~1 μ F  
 106~10 μ F  
 107~100 μ F

**N ~ RoHS**

14/15/16/17 are for wire type.