

DISC DC CERAMIC CAPACITOR

Capacitance Range: 10PF to 100000PF

CLASS I: Tested at 1.0 ± 0.2 V RMS, +25°C and 1KHz

CLASS II III: Tested at 1.0 ± 0.2 V RMS, +25°C and 1KHz

Capacitance Tolerance:

J = $\pm 5\%$ (except for Y5E/Y5P & Y5V & Z5V)

K = $\pm 10\%$ (Except for Y5V/Y5U & Z5V & Y5E/Y5P)

M = $\pm 20\%$ (except for Z5V)

Z = -20% ~ +80%

P = 0% ~ +100%

Working Voltage:

500, 1000, 2000, 3000, 4000, 5000, 6000..., 15KV

Dielectric Strength:

Below 1KV: 250% rated voltage with 50mA max charging current.

1KV & above: 200% rated voltage with 50mA max charging current.

10KV & above: 150% rated voltage with 50mA max charging current.

Dissipation Factor:

Class I: Tested at 1.0 ± 0.2 V RMS, +25°C and 1MHz 30PF below $Q > 400 + 20 * \text{Cap}$ 30PF above $Q \geq 1000$

Class II III: Tested at 1.0 ± 0.2 V RMS, +25°C and 1 KHz, 3% max for Z5V, 2.5% max for others.

Insulation Resistance:

10,000 Mega ohms min at rate working voltage or 500VDC whichever is less. @25°C

Humidity Tested:

Per EIA RS-198-C, method B3, Condition B. Capacitance Change: 30% max for Z5V, 20% max for others

Dissipation Factor: 5% max for Z5V, 3% max for others.

Life Test:

Per EIA RS-198-C, method C2, Condition C, at 85 ± 2 °C, and 200% rated working voltage.

(150% for parts rated over 500VDC)

Capacitance change: 30% max for Z5V, 20% max for others.

Dissipation Factor: 5% max for Z5V, 3% max for others. Insulation resistance: 10,000 Megaohms min.

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CLASS 1

Temperature Compensating Type

T.C W.V.D.C	C (NPO)	U(N750)	S(SL)	DIAMETER (MAX)
50V	1PF~50PF	22PF~50PF	47PF~150PF	6Φ
	51PF~82PF	51PF~82PF	180PF~220PF	7Φ
	83PF~120PF	83PF~120PF	250PF~330PF	8Φ
	121PF~180PF	130PF~180PF	340PF~470PF	9Φ
	181PF~220PF	181PF~220PF	500PF~680PF	10Φ
	221PF~270PF	221PF~270PF	820PF	11Φ
	271PF~330PF	271PF~330PF	---	12Φ
	331PF~390PF	301PF~331PF	---	13Φ
	470PF	470PF	---	15Φ

CLASS 2

High K (dielectric Const Ant) Type

T.C W.V.D.C	B (Y5P, Z5U)	E(Z5U)	F(Z5V)	DIAMETER (MAX)
50V	270PF~2200PF	2000PF~5000PF	5000PF~10000PF	6Φ
	2300PF~3300PF	6800PF~8200PF	10000PF~20000PF	7Φ
	3400PF~5000PF	10000PF~12000PF	22000PF	8Φ
	5100PF~6800PF	15000PF	---	9Φ
	8200PF~10000PF	18000PF~20000PF	---	10Φ
	10000PF	22000PF	47000PF	11Φ

CLASS 3

S.C. (Semi conducting) Type

T.C W.V.D.C	E (Y5U)	F (Y5V)	DIAMETER (MAX)
50V	33000PF	47000PF	6Φ
	47000PF	100000PF	7Φ
	68000PF	---	8Φ
	100000PF	---	9Φ

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W.V.D.C T.C	B (Y5E, Y5P)	E (Z5U, Y5U)	F (Z5V)	DIAMETER (MAX)
500V	150PF~680PF	1000PF	2200PF	6Φ
	1200PF	1500PF	4700PF	7Φ
	1500PF	2200PF	6800PF	8Φ
	2200PF	4700PF	10000PF	9Φ
	3300PF	10000PF	---	10Φ
	4700PF	----	20000PF	12Φ
	10000PF	20300PF	33000PF	14Φ
	---	33000PF	47000PF	18Φ
1KV	100PF~470PF	1000PF	1000PF	6Φ
	560PF~820PF	1500PF~2200PF	1500PF~2200PF	7Φ
	1000PF	3300PF	4700PF	8Φ
	1500PF	3900PF	6800PF	9Φ
	2200PF	4700PF	10000PF	10Φ
	3300PF	10000PF	15000PF	12Φ
	4700PF	15000PF	22000PF	14Φ
	6800PF	22000PF	33000PF	16Φ
	8200PF	33000PF	47000PF	18Φ
	10000PF	47000PF	100000PF	20Φ
2KV	100PF~470PF	---	1000PF	7Φ
	560PF	1000PF	2200PF	8Φ
	820PF	1500PF	3300PF	9Φ
	1000PF	2200PF	4700PF	10Φ
	2200PF	3300PF	6800PF	12Φ
	3300PF	4700PF	8200PF	14Φ
	4700PF	6800PF~8200PF	10000PF	16Φ
	5600PF	10000PF	22000PF	18Φ
	6800PF	---	---	20Φ
	8200PF	22000PF	47000PF	24Φ

W.V.D.C / T.C	B (Y5E, Y5P)	E (Z5U, Y5U)	F (Z5V)	DIAMETER (MAX)
3KV	100PF~330PF	---	1000PF	7Φ
	390PF~470PF	1000PF	1500PF	8Φ
	680PF	1500PF	2200PF	9Φ
	820PF~1000PF	2200PF	3300PF	10Φ
	1500PF	3300PF	4700PF	12Φ
	1800PF	4700PF	5600PF	14Φ
	2000PF~2700PF	5600PF	10000PF	16Φ
	3300PF~3900PF	6800PF	---	18Φ
	4700PF	8200PF~10000PF	22000PF	20Φ
4KV	100PF~270PF	---	1000PF	8Φ
	330PF~560PF	1000PF	1500PF	9Φ
	680PF~820PF	1500PF	2200PF	10Φ
	1000PF	---	---	11Φ
	1200PF	2200PF	3300PF	12Φ
	1500PF	3300PF	4700PF	14Φ
	2200PF	4700PF	5600PF	16Φ
	---	6800PF	---	18Φ
	3300PF	8200PF	10000PF	20Φ
	4700PF	10000PF	---	22Φ
5KV	220PF	---	---	8Φ
	270PF~330PF	---	1000PF	9Φ
	470PF	1000PF	---	10Φ
	680PF	1500PF	1500PF	12Φ
	1000PF	---	1800PF	13Φ
	1500PF	1800PF	2200PF	15Φ
	2200PF	2200PF	3300PF	18Φ
	3300PF	---	---	22Φ