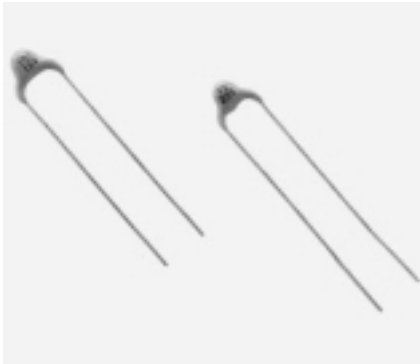


DISC CERAMIC CAPACITORS

MEDIUM VOLTAGE – 1KV TO 6KVDC

DE SERIES



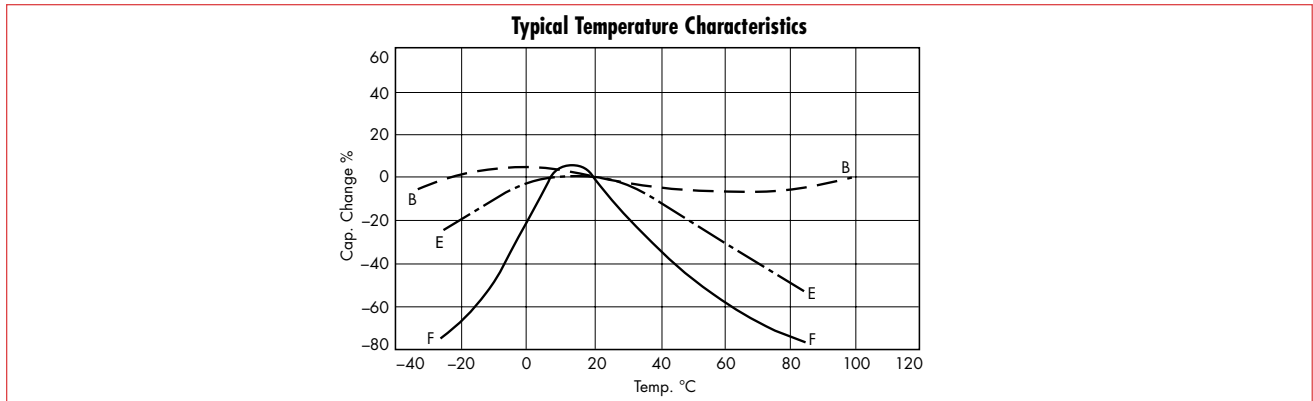
FEATURES

- Extremely small diameter (4.5mm)
- Suitable for high density mounting
- Meets UL94V-0 standards
- Suitable for auto insertion
- New vertical crimped in-line leads
- Temperature Range: -25°C to +85°C

DIMENSIONS: mm

	Rated Voltage	Diameter (mm)	L.S. (mm)	Capacitance Value (pF)
	1KV-B, 2KV 5.0, 3KV 6.0, 6KV 7.0	4.5 ~ 15	5 ~ 10	100 ~ 6800
		4.5 ~ 15	5 ~ 10	100 ~ 4700
		5 ~ 15	7.5 ~ 10	100 ~ 3300
		9 ~ 13	10	100 ~ 1000
		5 ~ 13	5 ~ 7.5	1000 ~ 10000
		6 ~ 16	5 ~ 10	1000 ~ 10000
		7 ~ 13	7.5	1000 ~ 4700
		11, 15	10	1000, 2200
		6 ~ 10	5	2200 ~ 10000
		5 ~ 12	5	1000 ~ 10000

SPECIFICATIONS



PART NUMBERING SYSTEM

CAPACITOR TYPE AND SIZE	LEAD SPACING	TEMPERATURE CHARACTERISTICS	CAPACITANCE VALUE	CAPACITANCE TOLERANCE	VOLTAGE
DE04	05 = 5 07 = 7.5 10 = 10	Class I: Per standard EIA specifications. Class II & III: TEMPERATURE RANGE: -25°C to +85°C MAX. CAP. CHANGE OVER TEMP. RANGE: B = ±10% E = +20, -55% F = +30, -80%	101	J = ±5% K = ±10% Z = +80, -20%	1K

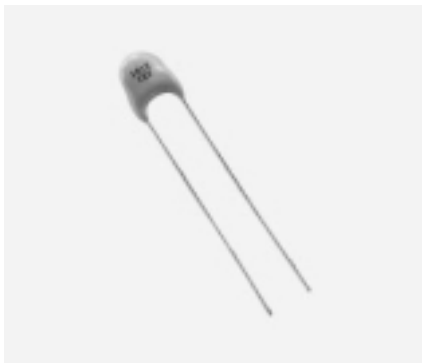
Note: B, E, F are JIS codes that are similar to EIA temperature characteristics Y5P, Y5U and Y5V respectively.

For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

DISC CERAMIC CAPACITORS

HIGH TEMPERATURE – 250V TO 3KVDC

DE SERIES



FEATURES

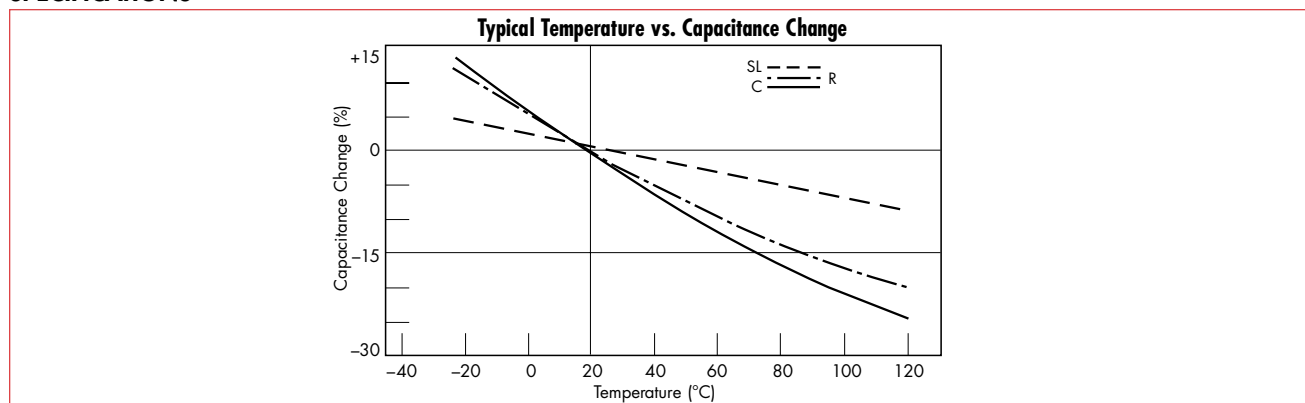
- Extremely small diameter (4.5mm)
- Suitable for high density mounting
- Meets UL94V-0 standards
- Suitable for auto insertion
- New vertical crimped in-line leads
- Temperature Range: -25°C to +125°C

CAPACITORS

DIMENSIONS: mm

	Rated Voltage	Diameter (mm)	L.S. (mm)	Capacitance Value (pF)
	1KV-SL	4.5 ~ 12	5	10 ~ 560
	2KV-SL	4.5 ~ 15	5 ~ 10	10 ~ 560
	3KV-SL	5 ~ 16	7.5 ~ 10	10 ~ 390
	250V-R	6 ~ 12	5	220 ~ 10000
	500V-C	6 ~ 14	5 ~ 10	330 ~ 4700
	1KV-R	7 ~ 17	5 ~ 10	220 ~ 4700
	2KV-R	7 ~ 21	7.5 ~ 10	220 ~ 4700
	3KV-R	7 ~ 19	7.5 ~ 10	100 ~ 2700

SPECIFICATIONS



PART NUMBERING SYSTEM

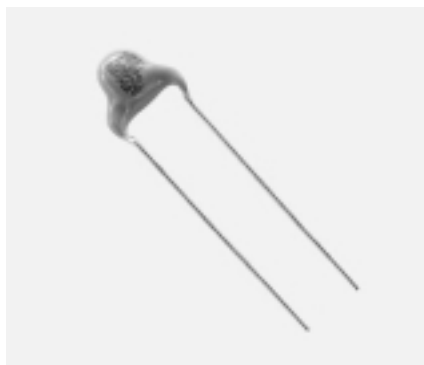
	DE07	05	R		221	K	1K	
CAPACITOR TYPE AND SIZE	LEAD SPACING	TEMPERATURE CHARACTERISTICS			CAPACITANCE VALUE	CAPACITANCE TOLERANCE	CAPACITANCE	VOLTAGE
	05 = 5 07 = 7.5 10 = 10	−25°C to +125°C MAX. CAP. CHANGE OVER TEMP. RANGE SL = +350–1000ppm/°C			Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow.	J = ± 5% (SL only) K = ± 10%		Identified by a one, two or three digit number.
					</			

For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

DISC CERAMIC CAPACITORS

SAFETY RECOGNIZED—KH TYPE—125VAC-400VAC

DE SERIES



FEATURES

- Operating temperature range up to 125°C (UL/CSA 85°C)
- IEC 384-14 2nd edition 1993 class X1, Y2
- Recognized by:
UL/CSA/BSI/SEMKO/SEV/
VDE/FIMKO/NEMKO/
DEMKO/SAA

DIMENSIONS: mm

	Part Number	D max.	L.S.
	DE0807B101K-KH	8	7.5
	DE0807B151K-KH	8	7.5
	DE0807B221K-KH	8	7.5
	DE0807B331K-KH	8	7.5
	DE0807B471K-KH	8	7.5
	DE0907B681K-KH	9	7.5
	DE0807E102M-KH	8	7.5
	DE0907E152M-KH	9	7.5
	DE1007E222M-KH	10	7.5
	DE1207E332M-KH	12	7.5
	DE1307E472M-KH	13	7.5
	DE1607F103M-KH	16	7.5

SPECIFICATIONS

Part Number	Rated Voltage	Capacitance (pF)
DE0807B101K-KH	250VAC (400VAC for SEV, FIMKO, NEMKO, DEMKO, SAA)	100
DE0807B151K-KH		150
DE0807B221K-KH		220
DE0807B331K-KH		330
DE0807B471K-KH		470
DE0907B681K-KH		680
DE0807E102M-KH		1000
DE0907E152M-KH		1500
DE1007E222M-KH		2200
DE1207E332M-KH		3300
DE1307E472M-KH		4700
DE1607F103M-KH		10000

PART NUMBERING SYSTEM

DE0807	B	101	K	KH
CAPACITOR TYPE AND SIZE	TEMPERATURE CHARACTERISTICS Temperature Range B = -25°C to +125°C E = -25°C to +125°C F = -25°C to +125°C MAX. CAP. CHANGE OVER TEMP. RANGE: B = ±10% E = +20, -55% F = +30, -80%	CAPACITANCE VALUE Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow.	CAPACITANCE TOLERANCE K = ±10% M = ±20%	LISTED TYPE DESIGNATION

*B, E, F are JIS TC codes that are similar to EIA Temperature Characteristics Y5P, Z5U, Y5V.
Temperature Range to +125°C. (85°C: UL, CSA)

For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

DISC CERAMIC CAPACITORS SAFETY RECOGNIZED—KX TYPE DE SERIES



FEATURES

- Operating Temperature Range up to 125°C (UL/CSA 85°C)
- IEC 384-14 2nd Edition 1993 Class XI, YI
- Recognized by UL/CSA/VDE/SEV/FIMKO/DEMKO/NEMKO/SEMKO/IMQ/BSI.

CAPACITORS

DIMENSIONS: mm

	Part Number	D max.	T max.	L.S.
	DE0910B101K-KX	9.0	8.0	10 ± 1.0
	DE0910B151K-KX			
	DE0910B221K-KX			
	DE0910B331K-KX			
	DE0910B471K-KX			
	DE1010B681K-KX	10.0		
	DE0910E102M-KX	9.0		
	DE1110E152M-KX	11.0		
	DE1210E222M-KX	12.0		
	DE1410E332M-KX	14.0		
	DE1510E392M-KX	15.0		
	DE1610E472M-KX	16.0		

SPECIFICATIONS

Part Number	Temperature Characteristics	Nominal Capacitance (pF)	Voltage
DE0910B101K-KX	B	100	250VAC (400VAC for SEV FIMKO, NEMKO DEMKO and SAA)
DE0910B151K-KX		150	
DE0910B221K-KX		220	
DE0910B331K-KX		330	
DE0910B471K-KX		470	
DE1010B681K-KX		680	
DE0910E102M-KX	E	1000	
DE1110E152M-KX		1500	
DE1210E222M-KX		2200	
DE1410E332M-KX		3300	
DE1510E392M-KX		3900	
DE1610E472M-KX		4700	

PART NUMBERING SYSTEM

DE1010	B	101	K	KX
CAPACITOR TYPE AND SIZE	TEMPERATURE CHARACTERISTICS Temperature Range -25°C to +85°C MAX. CAP. CHANGE OVER TEMP. RANGE: B = ±10% E = +20%, -55%	CAPACITANCE VALUE Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow.	CAPACITANCE TOLERANCE K = ±10% M = ±20%	LISTED TYPE DESIGNATION

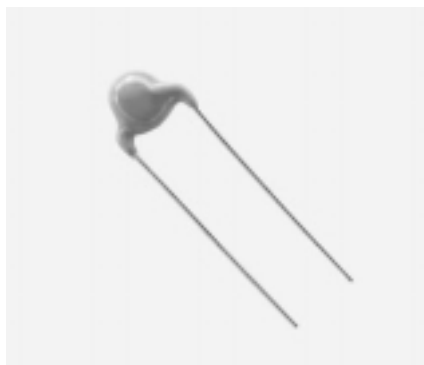
*B and E are JIS TC codes that are similar to EIA Temperature Characteristics YSP and Y5U.

For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

DISC CERAMIC CAPACITORS

SAFETY RECOGNIZED—MX TYPE

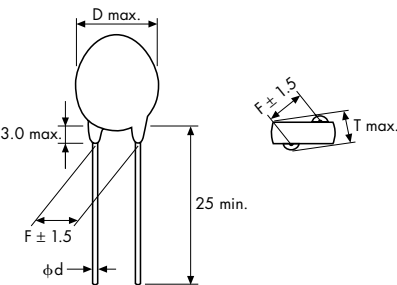
DE SERIES



FEATURES

- Double protection type (UL approved)
- Dual element type (CSA approved)
- Operating temperature range up to 125°C (UL/CSA 85°C)
- IEC 384-14 2nd edition 1993 Class X1, Y1
- Recognized by:
UL/CSA/VDE/SEV/FIMKO/
DEMKO/NEMKO/SEMKO/
IMQ/BSI

DIMENSIONS: mm

Straight Long (Lead Code: No Code) 	Part Number	D	F	T	φd
	DE1110B101KAC125-MX	11	10	10	0.8 ^{+0.08} _{-0.05}
	DE1110B221KAC125-MX			9	
	DE1110B221KAC125-MX	12			
	DE1110B221KAC125-MX	13			
	DE1610E222MAC125-MX	16			
	DE1610F332MAC125-MX				
	DE1910F472MAC125-MX	19			

SPECIFICATIONS

Part Number	Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance (%)	Operating Temperature Range	Rated Voltage
DE1110B101KAC125-MX	B	100	±10%	-25 ~ +85°C	AC125V(r.m.s.) UL: UL1414 CSA: C22.2, No. 0, No. 1
DE1110B221KAC125-MX		220			
DE1210B471KAC125-MX		470			
DE1310E102MAC125-MX	E	1000	±20%		
DE1610E222MAC125-MX		2200			
DE1610F332MAC125-MX	F	3300			
DE1910F472MAC125-MX		4700			

Note: MX type is approved as double protection capacitors by UL and as element type capacitors by CSA.

PART NUMBERING SYSTEM

DE1010 CAPACITOR TYPE AND SIZE	B TEMPERATURE CHARACTERISTICS Temperature Range -25°C to +85°C MAX. CAP. CHANGE OVER TEMP. RANGE: B = ±10% E = +20%, -55% F = +30%, -80%	101 CAPACITANCE VALUE Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow.	K CAPACITANCE TOLERANCE K = ±10% M = ±20%	KX LISTED TYPE DESIGNATION
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*B and E are JIS TC codes that are similar to EIA Temperature Characteristics Y5P and Y5U.

For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.