

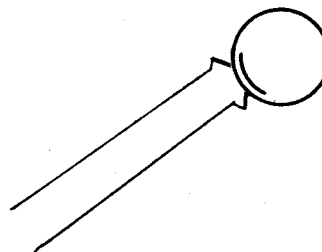


CERAMIC DISC CAPACITORS

HI-K TYPE (DIELECTRIC CONSTANT)

FEATURES

- BARIUM TITANATE CERAMIC DIELECTRIC
- RESIN DIPPED AND WAX IMPREGNATED
- EXCELLENT HEAT AND MOISTURE RESISTANCE
- AVAILABLE PACKAGING – BULK, TAPED AND REELED, AMMO PACK
- VERY COMPETITIVELY PRICED



GENERAL SPECIFICATIONS

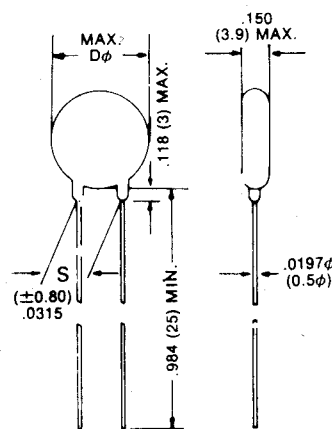
EIA TYPE		Y5F	Y5P	Y5U	Z5U	Z5V
OPERATING TEMPERATURE RANGE		-30 ~ + 85°C	-30 ~ + 85°C	-30 ~ + 85°C	+10 ~ + 85°C	+10 ~ + 85°C
CAPACITANCE CHANGE OVER TEMP. RANGE		± 7.5%	± 10%	-56% ~ + 22%	-56% ~ + 22%	-82% ~ + 22%
DISSIPATION FACTOR (MAX @ 1 KHz)		2.5%	2.5%	5%	5%	5%
CAPACITANCE RANGE		100 pf-5600 pf	100 pf-.022 μf	100 pf-.033 μf	1000 pf-.1 μf	1000 pf-.2 μf
INSULATION RESISTANCE		MINIMUM 10,000 MEGOHMS				
LOAD LIFE TEST 85°C 1000 HRS.	CAP. CHANGE	± 10%	± 10%	± 10%	± 20%	± 30%
	D.F. (MAX)	4%	4%	4%	7.5%	7.5%
	I.R. (MIN)	1000M	1000M	1000M	1000M	1000M
LOAD HUMIDITY TEST 40°C/90-95 RH 500 HRS.		SHALL CONFORM TO THE REQUIREMENTS IN LOAD LIFE TEST				

Part Numbering System (ref. p75)

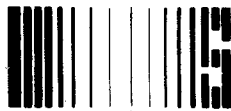
WITHSTANDING VOLTAGE:

- 500V or less: 2.5 TIMES OF RATED W.V.
- 1,000-5,000V: 2 TIMES OF RATED W.V.
- 6,000 and over: 1.75 TIMES OF RATED W.V.

Code	Tolerance	Applicable T.C.	Remarks
C	± 0.25pF	NPO - N750	For smaller than 10pF
D	± 0.50pF	NPO - N750	For smaller than 10pF
F	± 1.00pF	NPO - N750	For smaller than 10pF
J	± 5%	NPO - N3300	For over 10pF
K	± 10%	NPO - N3300 (Y5F, Y5P)	For over 10pF
M	± 20%	NPO - N3300 (Y5F, Y5P, Y5U, Z5U)	For over 10pF
S	+50%—20%	Y5U, Z5U, Z5V	
Z	+80%—20%	Y5U, Z5U, Z5V	
P	+100%—0	Y5U, Z5U, Z5V	



UNIT: %



CERAMIC DISC CAPACITORS

HI-K TYPE STANDARD VALUES AND DIMENSIONS (BY PFD)

50WVDC AND 100WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC				
D DIAMETER	S LEAD SPACE	Y5F	Y5P	Y5U	Z5U	Z5V
.220 (5.5)	.250 (6.35)	100-500	200-1200	1000-2000	1000-3300	5000-8200
.260 (6.5)	.250 (6.35)	560-820	1500-2200	2200-3900	3900-5600	10,000
.335 (8.5)	.250 (6.35)	1000-1800	2500-5600	4700-8200	6800-10,000	22,000
.415 (10.5)	.250 (6.35)	2000-3300	6200-8200	10,000	20,000	40,000
.492 (12.5)	.250 (6.35)	3900-5600	10,000	20,000	47,000 (.047 MFD)	68,000 (.068 MFD)
.530 (13.5)	.300 (7.5)				68,000 (.068 MFD)	100,000 (.1 MFD)
.610 (15.5)	.300 (7.5)				100,000 (.1 MFD)	

250WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC				
D DIAMETER	S LEAD SPACE	Y5F	Y5P	Y5U	Z5U	Z5V
.220 (5.5)	.250 (6.35)	100-390	200-820	1000-1800	1000-3300	3000-5600
.260 (6.5)	.250 (6.35)	400-560	1000-1800	2000-3000	3900-4700	6800-8200
.335 (8.5)	.250 (6.35)	620-1000	2000-3300	3300-3900	5000-12,000	10,000 (.01 MFD) 15,000 (.015 MFD)
.415 (10.5)	.250 (6.35)	1200-2000	3900-5600	4700-8200	15,000	22,000 (.022 MFD)
.492 (12.5)	.250 (6.35)	2200-3000	6200-8200	10,000 (.01 MFD)	22,000 (.022 MFD)	33,000 (.033 MFD)
.570 (14.5)	.250 (6.35)					47,000 (.047 MFD)

ABOVE ARE MAXIMUM SIZES.

SURGE OFFERS SUBSTITUTE VOLTAGES AND TEMPERATURE COEFFICIENTS IF SIZE AND ELECTRICAL CHARACTERISTICS ARE COMPATIBLE. FOR SIZES OF 2KWV AND HIGHER, PLEASE CONTACT US DIRECT.

CERAMIC DISC CAPACITORS

HI-K TYPE STANDARD VALUES AND DIMENSIONS (BY PFD)

50WVDC AND 100WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC				
D DIAMETER	S LEAD SPACE	Y5F	Y5P	Y5U	Z5U	Z5V
.220 (5.5)	.250 (6.35)	100-500	200-1200	1000-2000	1000-3300	5000-8200
.260 (6.5)	.250 (6.35)	560-820	1500-2200	2200-3900	3900-5600	10,000
.335 (8.5)	.250 (6.35)	1000-1800	2500-5600	4700-8200	6800-10,000	22,000
.415 (10.5)	.250 (6.35)	2000-3300	6200-8200	10,000	20,000	40,000
.492 (12.5)	.250 (6.35)	3900-5600	10,000	20,000	47,000 (.047 MFD)	68,000 (.068 MFD)
.530 (13.5)	.300 (7.5)				68,000 (.068 MFD)	100,000 (.1 MFD)
.610 (15.5)	.300 (7.5)				100,000 (.1 MFD)	

250WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC				
D DIAMETER	S LEAD SPACE	Y5F	Y5P	Y5U	Z5U	Z5V
.220 (5.5)	.250 (6.35)	100-390	200-820	1000-1800	1000-3300	3000-5600
.260 (6.5)	.250 (6.35)	400-560	1000-1800	2000-3000	3900-4700	6800-8200
.335 (8.5)	.250 (6.35)	620-1000	2000-3300	3300-3900	5000-12,000	10,000 (.01 MFD) 15,000 (.015 MFD)
.415 (10.5)	.250 (6.35)	1200-2000	3900-5600	4700-8200	15,000	22,000 (.022 MFD)
.492 (12.5)	.250 (6.35)	2200-3000	6200-8200	10,000 (.01 MFD)	22,000 (.022 MFD)	33,000 (.033 MFD)
.570 (14.5)	.250 (6.35)					47,000 (.047 MFD)

ABOVE ARE MAXIMUM SIZES.

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CERAMIC DISC CAPACITORS

HI-K TYPE STANDARD VALUE AND DIMENSIONS (BY PFD)

500WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC				
D DIAMETER	S LEAD SPACE	Y5F	Y5P	Y5U	Z5U	Z5V
.220 (5.5)	.250 (6.35)	100-270	200-500	820-1200	1000-3000	2000-3300
.260 (6.5)	.250 (6.35)	300-470	560-1000	1500-1800	3300-3900	3900-4700
.335 (8.5)	.250 (6.35)	500-820	1200-2200	2000-3300	4700-6800	5000-10,000
.415 (10.5)	.250 (6.35)	1000-1500	2500-3900	3900-5600	8200-10,000	20,000 (.022 MFD) 33,000 (.033 MFD)
.492 (12.5)	.250 (6.35)	1800-2200	4000-5600	6800-10,000	22,000 (.022 MFD)	
.530 (13.5)	.250 (6.35)				47,000 (.047 MFD)	
.610 (15.5)	.300 (7.5)					68,000 (.068 MFD)
.730 (18.5)	.394 (10.0)					100,000 (.1 MFD)
.827 (21.0)	.394 (10.0)				100,000 (.1 MFD)	

1000WVDC - INCHES AND (mm)

DIMENSION		TEMPERATURE CHARACTERISTIC	DIMENSION		TEMPERATURE CHARACTERISTIC
D DIAMETER	S LEAD SPACE	Z5F, Z5P Y5F, Y5P	D DIAMETER	S LEAD SPACE	Z5U Y5U
.275 (6.5)	.250 (6.35)	100-560	(7.0)	.250 (6.35)	820-1500
.325 (8.0)	.250 (6.35)	680-1200	(7.5)	.250 (6.35)	1800
.370 (9.0)	.250 (6.35)	1500-1800	(9.0)	.250 (6.35)	2200-3300
.400 (10.0)	.250 (6.35)	2200-2700	(10.0)	.250 (6.35)	3900-5600
.450 (11.0)	.250 (6.35)	3300-3900	(14.0)	.250 (6.35)	6800-10,000
.600 (15.0)	.300 (7.5)	4700	(17.0)	.400 (10.0)	15,000
.625 (16.0)	.300 (7.5)	5600	(19.0)	.400 (10.0)	22,000
.700 (17.5)	.300 (7.5)	6800	(20.0)	.400 (10.0)	33,000
.748 (19.0)	.400 (10.0)	8200	(25.0)	.400 (10.0)	47,000
.827 (21.0)	.400 (10.0)	10,000			

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