# 15DK, 20DK, 30DK, 40DK, 10KT, 15KT, 20KT, 30KT, 40KT Series

Vishay Cera-Mite



# **Heavy Duty High Voltage Capacitors**

### 10 TO 40KV MOLDED EPOXY CASE DK GENERAL PURPOSE TYPE, EIA CLASS III APPLICATIONS:

- · High Voltage Power Supplies, CRTs, Lasers.
- · Smallest Size Available.

# KT SPECIAL PURPOSE TYPE, EIA CLASS I APPLICATIONS:

- · High Voltage Power Supplies, CRTs, Lasers.
- · Greater Capacitance Stability.
- Features Low DF and Low Heating, Low DC & AC Voltage Coefficient.
- · Tighter Tolerance On Capacitance.
- · Highest AC Voltage Ratings.

### **PERFORMANCE CHARACTERISTICS:**

Operating Temperature Range: -30°C to +85°C Storage Temperature Range: -40°C to +100°C

Dielectric Strength: 150% of rated voltage, charging

current limited to 50mA.

Insulation Resistance: 200,000 megohms or  $1000\Omega F$ 

minimum at 25°C.

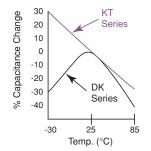
Corona Limit: 50 picocoulombs at rated AC voltage.

Self Resonant Frequency: Ranges from 50 MHz for small

diameters to 10 MHz for large diameters.

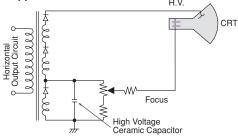
Power Dissipation: Limit to 25°C rise above ambient,

measured on case.



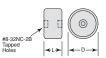
KT Series ceramic material is specially designed to handle AC current, due to low dissipation factor.

#### **Typical Applications**



Applications where high dv/dt is present will operate at high peak currents ( $I_p = dv/dt \times C$ ). Capacitors should be evaluated in the actual circuit for dv/dt greater than 2000V/ microsecond. If repetitive, it may be necessary to use a series resistor or other impedance to limit peak currents to safe values.

Fig 17



NOTE: Screw torque limit: 12 inch pounds. Use #8-32, 3/16" long screw to prevent bottoming.

D SIZE	DIAMETER MAX.		
CODE	in.	mm	
A B C D E F G H	.880 1.05 1.30 1.55 1.80 2.13 2.30 2.42	22.4 26.7 33.0 39.4 45.7 54.1 58.4 61.5	

L	LENGTH		
SIZE	MAX.		
CODE	in.	mm	
J	.780	19.8	
K	.900	22.9	
L	1.00	25.4	
M	1.18	30.0	
N	1.36	34.5	

715C Series

### TYPE DK CAPACITOR

Class III Y5U Temp. Coefficient Cap Tol. +80% - 20% DF: 2% Max @ 1 kHz

### 15,000 VDC; 4,000 VRMS, 60HZ

CAP	CATALOG	SI	ZE
pF	NUMBER	D CODE	L CODE
1500	15DKD15	В	K
2000	15DKD20	С	K
3300	15DKD33	D	K
4700	15DKD47	D	K
.01 uF	15DKS10	G	K

### 20,000 VDC; 5,000 VRMS, 60HZ

CAP	CATALOG S		ZE
pF	NUMBER	D CODE	L CODE
500	20DKT50	Α	L
1000	20DKD10	С	L
1300	20DKD13	С	L
2500	20DKD25	D	L
3300	20DKD33	E	L
4700	20DKD47	F	L
6800	20DKD68	Н	L

### 30,000 VDC: 7,000 VRMS, 60HZ

CAP	CATALOG	SI	ZE
pF	NUMBER	D CODE	L CODE
500	30DKT50	В	N
1000	30DKD10	С	M
2500	30DKD25	D	M
3300	30DKD33	F	M
4700	30DKD47	G	M

### 40.000 VDC: 9.000 VRMS, 60HZ

70,000 ¥DO, 3,000 ¥NW			13, 001		
	CAP	CATALOG	SI	ZE	
	pF	NUMBER	D CODE	L CODE	
	300	40DKT30	Α	N	
	500	40DKT50	В	N	
	780	40DKT78	С	N	
	1000	40DKD10	D	N	
	1600	40DKD16	Е	N	
	2500	40DKD25	F	N	
	3300	40DKD33	G	N	

# TYPE KT CAPACITOR

Class I N4700 Temp. Coefficient Cap Tol. ±20% DF: 0.2% Max @ 1 kHz

### 10,000 VDC; 4,000 VRMS, 60HZ

САР	CATALOG	SIZE	SIZE	
CAP PF	NUMBER	D CODE	L CODE	
1000	10KTD10	С	J	
2200	10KTD22	D	J	
3900	10KTD39	F	J	
4700	10KTD47	G	J	

### 15,000 VDC; 6,000 VRMS, 60HZ

	CAP	CATALOG	SI	ZE
	pF	NUMBER	D CODE	L CODE
I	820	15KTT82	С	K
ı	1900	15KTD19	F	K
	3300	15KTD33	G	K

### 20,000 VDC; 8,000 VRMS, 60HZ

CAP	CATALOG	SI	ZE
рF	NUMBER	D CODE	L CODE
560	20KTT56	С	L
1000	20KTD10	D	L
1900	20KTD19	F	L
2700	20KTD27	Н	L

### 30,000 VDC; 10,000 VRMS, 60HZ

CAP	CATALOG	SI	ZE
pF		D CODE	L CODE
400	30KTT40	С	M
660	30KTT66	D	M
1200	30KTD12	F	M
1800	30KTD18	Н	М

### 40,000 VDC; 13,000 VRMS, 60HZ

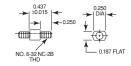
.,	-, -,	-	,
CAP	CATALOG	SI	ZE
pF	NUMBER	D CODE	L CODE
300	40KTT30	С	N
640	40KTT64	E	N
1000	40KTD10	F	N
1300	40KTD13	H	N

### **TERMINAL ADAPTORS** 75-135A

#8-32NC-2B Adapters.
Order separately as required.

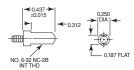
All tolerances ±0.010 unless specified

### 75-134A





#### 75-136A





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