

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

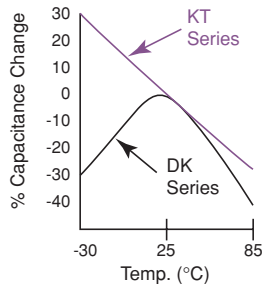
Dielectric Strength: 150% of rated voltage, charging current limited to 50mA.

Insulation Resistance: 200,000 megohms or 1000ΩF minimum at 25°C.

Corona Limit: 50 picocoulombs at rated AC voltage.

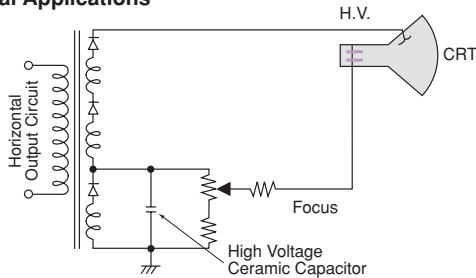
Self Resonant Frequency: Ranges from 50 MHz for small diameters to 10 MHz for large diameters.

Power Dissipation: Limit to 25°C rise above ambient, measured on case.



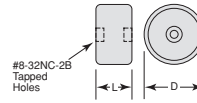
KT Series ceramic material is specially designed to handle AC current, due to low dissipation factor.

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

L SIZE CODE	LENGTH MAX.	
	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 pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
1500	15DKD15	B	K
2000	15DKD20	C	K
3300	15DKD33	D	K
4700	15DKD47	D	K
.01 uF	15DKS10	G	K

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

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
500	20DKT50	A	L
1000	20DKD10	C	L
1300	20DKD13	C	L
2500	20DKD25	D	L
3300	20DKD33	E	L
4700	20DKD47	F	L
6800	20DKD68	H	L

30,000 VDC; 7,000 VRMS, 60HZ

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
500	30DKT50	B	N
1000	30DKD10	C	M
2500	30DKD25	D	M
3300	30DKD33	F	M
4700	30DKD47	G	M

40,000 VDC; 9,000 VRMS, 60HZ

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
300	40DKT30	A	N
500	40DKT50	B	N
780	40DKT78	C	N
1000	40DKD10	D	N
1600	40DKD16	E	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

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
1000	10KTD10	C	J
2200	10KTD22	D	J
3900	10KTD39	F	J
4700	10KTD47	G	J

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

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
820	15KTT82	C	K
1900	15KTD19	F	K
3300	15KTD33	G	K

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

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
560	20KTT56	C	L
1000	20KTD10	D	L
1900	20KTD19	F	L
2700	20KTD27	H	L

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

CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
400	30KTT40	C	M
660	30KTT66	D	M
1200	30KTD12	F	M
1800	30KTD18	H	M

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

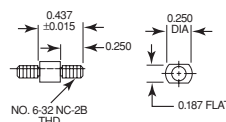
CAP pF	CATALOG NUMBER	SIZE	
		D CODE	L CODE
300	40KTT30	C	N
640	40KTT64	E	N
1000	40KTD10	F	N
1300	40KTD13	H	N

TERMINAL ADAPTORS 75-135A

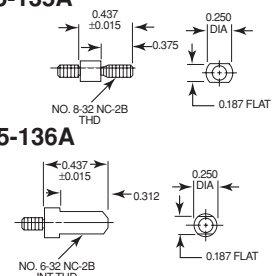
#8-32NC-2B Adapters.
Order separately as required.

All tolerances ±0.010 unless specified.

75-134A



75-136A





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.