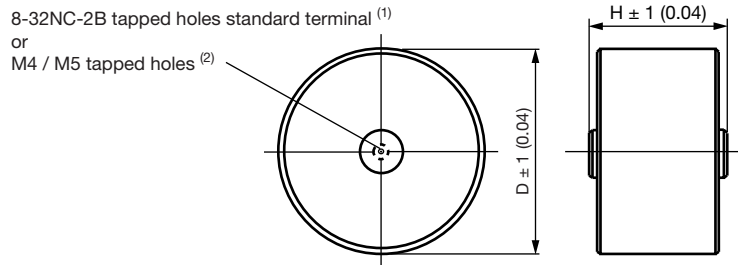


**DIMENSIONS** in millimeters (inches)

**Notes**

- (1) Use #8-32, 3/16" long screw to prevent bottoming  
 (2) To order metric terminals add "M4" or "M5" suffix to model number, use screw length of 4 mm or 5 mm respectively to prevent bottoming

ORDERING INFORMATION				
<b>715C15KTD33</b>	<b>15 kV<sub>DC</sub></b>	<b>3300 pF</b>	<b>± 20 %</b>	<b>N4700</b>
MODEL	RATED VOLTAGE	CAPACITANCE VALUE	TOLERANCE	CERAMIC

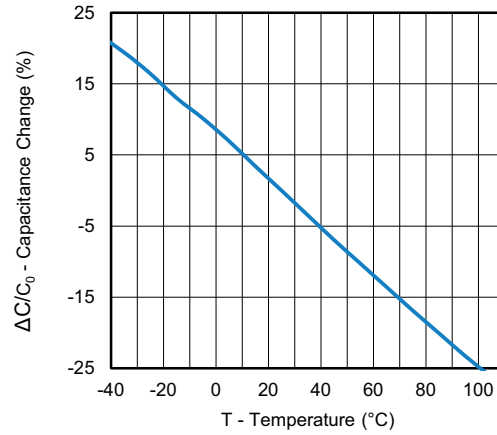
SAP PART NUMBER, ELECTRICAL, AND DIMENSIONAL DATA								
MODEL	CERAMIC	CAPACITANCE VALUES (pF)	RATED VOLTAGE (kV <sub>DC</sub> )	RATED VOLTAGE (kV <sub>RMS</sub> )	D ± 1 mm (0.04")	H WITH #8-32 TERMINALS ± 1 mm (0.04")	H WITH M4 METRIC TERMINALS ± 1 mm (0.04")	H WITH M5 METRIC TERMINALS ± 1 mm (0.04")
<b>715C10KT###</b>								
715C10KTT56	N4700	560	10	7	21 (0.83)	18 (0.71)	16 (0.63)	n/a
715C10KTT68		680			21 (0.83)			
715C10KTT82		820			25 (0.98)			
715C10KTD10		1000			25 (0.98)			
715C10KTD12		1200			30 (1.18)			
715C10KTD18		1800			30 (1.18)			
715C10KTD22		2200			37 (1.46)			
715C10KTD28		2800			37 (1.46)			
715C10KTD39		3900			44 (1.73)			
715C10KTD50		5000			52 (2.05)			
715C10KTD68		6800			56 (2.20)			
715C10KTD80		8000			60 (2.36)			
715C10KTD19		1900			37 (1.46)			
715C10KTD27		2700			44 (1.73)			
<b>715C15KT###</b>								
715C15KTT37	N4700	370	15	10	21 (0.83)	20 (0.79)	18 (0.71)	n/a
715C15KTT56		560			25 (0.98)			
715C15KTT75		750			30 (1.18)			
715C15KTD10		1000			32 (1.26)			
715C15KTD11		1100			32 (1.26)			
715C15KTD15		1500			37 (1.46)			
715C15KTD19		1900			37 (1.46)			
715C15KTD27		2700			44 (1.73)			
715C15KTD33		3300			48 (1.89)			
715C15KTD34		3400			52 (2.05)			
715C15KTD47		4700			56 (2.20)			
715C15KTD53		5300			60 (2.36)			
715C15KTD53		5300			60 (2.36)			
715C15KTD47		4700			56 (2.20)			
715C15KTD34		3400			52 (2.05)			
715C15KTD33		3300			48 (1.89)			
715C15KTD27	2700	44 (1.73)						
715C15KTD19	1900	37 (1.46)						
715C15KTD15	1500	37 (1.46)						
715C15KTD11	1100	32 (1.26)						
715C15KTD10	1000	32 (1.26)						
715C15KTD53	5300	60 (2.36)			22 (0.87)			



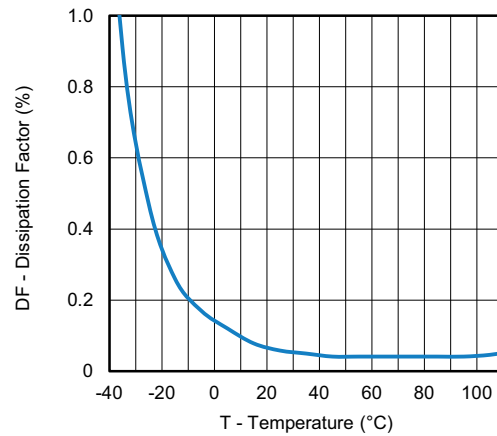
SAP PART NUMBER, ELECTRICAL, AND DIMENSIONAL DATA													
MODEL	CERAMIC	CAPACITANCE VALUES (pF)	RATED VOLTAGE (kV <sub>DC</sub> )	RATED VOLTAGE (kV <sub>RMS</sub> )	D ± 1 mm (0.04")	H WITH #8-32 TERMINALS ± 1 mm (0.04")	H WITH M4 METRIC TERMINALS ± 1 mm (0.04")	H WITH M5 METRIC TERMINALS ± 1 mm (0.04")					
<b>715C20KT###</b>													
715C20KTT20	N4700	200	20	14	21 (0.83)	23 (0.91)	21 (0.83)	n/a					
715C20KTT28		280			21 (0.83)								
715C20KTT40		400			25 (0.98)								
715C20KTT56		560			25 (0.98)								
715C20KTT70		700			30 (1.18)								
715C20KTT88		880			30 (1.18)								
715C20KTD10		1000			32 (1.26)								
715C20KTD14		1400			37 (1.46)								
715C20KTD17		1700			44 (1.73)								
715C20KTD22		2200			48 (1.89)								
715C20KTD25		2500			48 (1.89)								
715C20KTD33		3300			56 (2.20)								
715C20KTD40		4000			60 (2.36)								
<b>715C30KT###</b>													
715C30KTT19		N4700			190			30	20	21 (0.83)	27 (1.06)	25 (0.98)	n/a
715C30KTT20					200					21 (0.83)			
715C30KTT33	330		25 (0.98)										
715C30KTT40	400		32 (1.26)										
715C30KTT59	590		32 (1.26)										
715C30KTT70	700		37 (1.46)										
715C30KTT94	940		37 (1.46)										
715C30KTD12	1200		44 (1.73)										
715C30KTD15	1500		48 (1.89)										
715C30KTD17	1700		48 (1.89)										
715C30KTD22	2200		56 (2.20)										
715C30KTD27	2700		60 (2.36)										
<b>715C40KT###</b>													
715C40KTT10	N4700		100	40	27	21 (0.83)	31 (1.22)			29 (1.14)			n/a
715C40KTT14		140	21 (0.83)										
715C40KTT20		200	25 (0.98)										
715C40KTT30		300	32 (1.26)										
715C40KTT40		400	32 (1.26)										
715C40KTT44		440	32 (1.26)										
715C40KTT56		560	37 (1.46)										
715C40KTT70		700	37 (1.46)										
715C40KTT85		850	44 (1.73)										
715C40KTD10		1000	44 (1.73)										
715C40KTD13		1300	48 (1.89)										
715C40KTD15		1500	52 (2.05)										
715C40KTD20		2000	60 (2.36)										
<b>715C50KT###</b>													
715C50KTT10	N4700	100	50	34	21 (0.83)	34 (1.34)	32 (1.26)	n/a					
715C50KTT15		150			21 (0.83)								
715C50KTT20		200			25 (0.98)								
715C50KTT33		330			30 (1.18)								
715C50KTT40		400			32 (1.26)								
715C50KTT47		470			37 (1.46)								
715C50KTT56		560			37 (1.46)								
715C50KTT70		700			44 (1.73)								
715C50KTT85		850			44 (1.73)								
715C50KTD10		1000			48 (1.89)								
715C50KTD13		1300			52 (2.05)								
715C50KTD15		1500			56 (2.20)								
715C50KTD17		1700			60 (2.36)								
<b>715C50KT###</b>													
715C50KTT10	N4700	100	50	34	21 (0.83)	34 (1.34)	n/a	n/a					
715C50KTT15		150			21 (0.83)								
715C50KTT20		200			25 (0.98)								
715C50KTT33		330			30 (1.18)								
715C50KTT40		400			32 (1.26)								
715C50KTT47		470			37 (1.46)								
715C50KTT56		560			37 (1.46)								
715C50KTT70		700			44 (1.73)								
715C50KTT85		850			44 (1.73)								
715C50KTD10		1000			48 (1.89)								
715C50KTD13		1300			52 (2.05)								
715C50KTD15		1500			56 (2.20)								
715C50KTD17		1700			60 (2.36)								



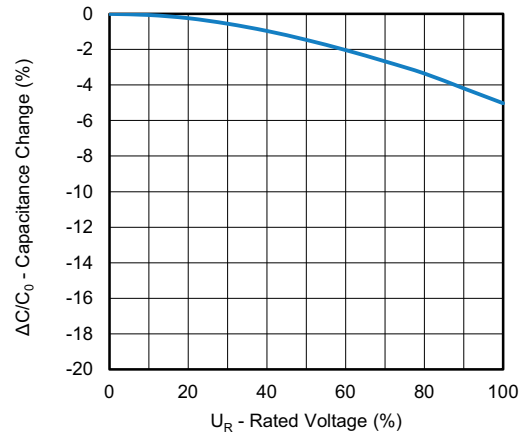
**CAPACITANCE CHANGE VS. TEMPERATURE** (typical)



**DISSIPATION FACTOR VS. TEMPERATURE** (typical)

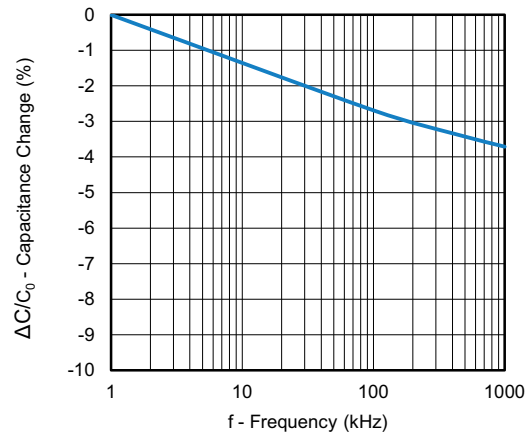


**CAPACITANCE CHANGE VS. VOLTAGE** (typical)

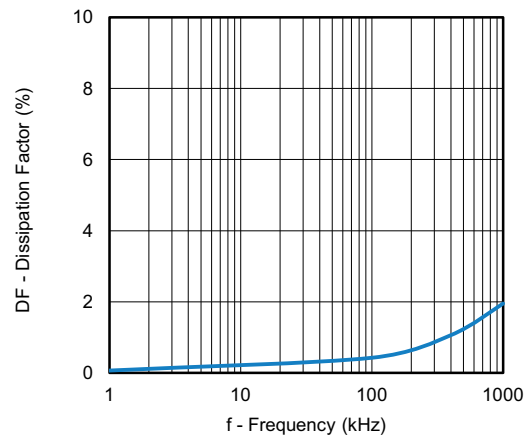




**CAPACITANCE CHANGE VS. FREQUENCY** (typical)



**DISSIPATION FACTOR VS. FREQUENCY** (typical)





TEST METHODS				
NO.	ITEM	SPECIFICATION	SAMPLE SIZE	TEST METHOD
<b>100 % TEST LOT BY LOT</b>				
1	Appearance	No remarkable damage	100 %	Visual check
2	Capacitance	Within the specified tolerance	100 %	Measured at 22 °C ± 2 °C with max. 5 V <sub>RMS</sub> at 1.0 kHz ± 0.1 kHz
3	Dissipation factor	0.2 % max.	100 %	Measured at 22 °C ± 2 °C with max. 5 V <sub>RMS</sub> at 1.0 kHz ± 0.1 kHz
4	Insulation resistance	200 GΩ min.	100 %	Measured with DC 180 V within 60 s of charging
5	Dielectric strength between terminals	No failure	100 %	Tested with 150 % of rated DC-voltage for min. 3 s in insulating fluid or oil (charge / discharge current < 50 mA)
<b>SAMPLE TEST LOT BY LOT</b>				
6	Partial discharge	5 pC max.	10 pieces	Measured with 50 % of rated AC voltage
7	Temperature characteristics	ΔC = -4700 ppm/K ± 1000 ppm/K (temp. range: +20 °C to +85 °C)	2 pieces	Measured at 20 °C / 50 °C / 85 °C / 20 °C Capacitance change at 85 °C shall not exceed the specified limit
8	Strength of terminals	#8-32 and M4: > 1.5 Nm; M5: > 2 Nm	10 pieces	Tested with a torque meter
9	Life test	No failure	3 pieces	Tested with 125 % of rated DC voltage for 100 h +24 h / -0 h at 85 °C ± 2 °C in oil
<b>TYPE TEST / ON DEMAND TEST</b>				
10	Dielectric strength between terminals	No failure	100 %	Tested with 150 % of rated AC voltage for min. 30 s in insulating fluid or oil
11	Lightning pulse 1.2/50 μs	No failure	100 %	Tested with 150 % of rated DC voltage 5 x positive plus 1 x negative
12	Temperature cycle	No failure (no. 1 to 6 within spec. after test)	5 pieces per lot	10 cycles -30 °C / +85 °C Dwell 60 min., rise / fall 60 min.
13	Humidity	No failure (no. 1 to 5 within spec. after test)	5 pieces per lot	Tested with 0 applied voltage for 500 h +24 h / -0 h at 93 % ± 2 % RH and 40 °C ± 2 °C
<b>DESTRUCTIVE TEST / RELEASE TEST</b>				
14	AC breakdown	No failure < 200 % of rated AC voltage	10 pieces per lot	Raise AC voltage with 500 V/s ± 100 V/s until breakdown. Tested in insulating fluid or oil
15	DC breakdown	No failure < 200 % of rated DC voltage	10 pieces per lot	Raise DC voltage with 500 V/s ± 100 V/s until breakdown. Tested in insulating fluid or oil
16	Lightning pulse 1.2/50 μs	No failure < 200 % of rated DC voltage	10 pieces per lot	Start at 150 % of rated DC voltage 1 x positive plus 1 x negative Raise voltage by 5 kV per step
17	Life test	No failure	5 pieces per lot	Tested with 125 % of rated DC voltage for 250 h +24 h / -0 h at 85 °C ± 2 °C in oil

RELATED DOCUMENTS	
General Information	<a href="http://www.vishay.com/doc?23140">www.vishay.com/doc?23140</a>



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