

## Ceramic Singlelayer Tubular Capacitors 160V<sub>DC</sub>

**DESIGN:**

Tubular capacitor completely lacquered (RDLL)  
 Tubular capacitor with brown phenol resin coating, impregnated (RDLT)

**RATED VOLTAGE U<sub>R</sub>:**

160V<sub>DC</sub> (110V<sub>RMS</sub>)

**DIELECTRIC STRENGTH BETWEEN LEADS:**

480V<sub>DC</sub> 1s

**DISSIPATION FACTOR tan δ:**

Ceramic Class 1: see General Information  
 Ceramic Class 2:  $\leq 25 \cdot 10^{-3}$

**INSULATION RESISTANCE R<sub>IS</sub>:**

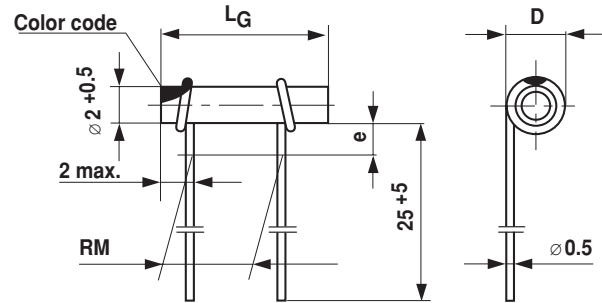
Ceramic Class 1:  $\geq 1 \cdot 10^{10} \Omega$   
 Ceramic Class 2:  $\geq 5 \cdot 10^9 \Omega$

**CATEGORY TEMPERATURE RANGE  $\vartheta_A$ :**

Ceramic Class 1: (- 55 to + 125)°C  
 Ceramic Class 2: (- 25 to + 85)°C

**CLIMATIC CATEGORY ACC. TO EN 60068-1:**

RDLL 40 / 085 / 21  
 RDLT 55 / 085 / 56



• Dimensions in mm

	RDLL	RDLT
Coating extension e	2 max.	3 max.
Overall length L <sub>G</sub>	L <sup>+1</sup> max.	L <sup>+2</sup> max.
Overall diameter D	3.5 max.	4.5 max.

**MARKING:**

Capacitance value,  
 Tolerance letter (RDL. 0210 to 0216 only)  
 Rated Voltage (RDL. 0216 only)  
 Ceramic dielectric colour code

CLASS	CERAMIC DIELECTRIC	CAPACITANCE VALUES (pF) AT NOMINAL TUBE LENGTH L (mm)				
		8 (0208)	10 (0210)	12 (0212)	14 (0214)	16 (0216)
1B	P 100	2.2 to 11	to 18	to 24	to 30	to 36
	NP 0	9.1 to 28	to 39	to 51	to 62	to 75
	N 150	10 to 39	to 56	to 75	to 100	to 120
	N 470	13 to 56	to 82	to 100	to 120	to 150
	N 750	24 to 82	to 120	to 150	to 180	to 220
2	R 700	180 to 560	to 680	to 910	to 1200	to 1500
	R 2000	620 to 1200	to 2000	to 2700	to 3600	to 4300
	R 4000	1000 to 2700	to 3600	to 5100	to 6800	to 8200
	R 6000	2700 to 4700	to 6800	to 8200	to 10000	to 12000
Lead spacing RM (mm)		5 ± 0.7	5 ± 0.7	7.5 ± 0.7	7.5 ± 0.7	7.5 ± 0.7

CERAMIC DIELECTRIC	NOMINAL VALUE	CAPACITANCE TOLERANCE			
P 100 to N 750	< 10pF	± 0.25pF	± 0.5pF	± 1pF	± 2pF
	≥ 10pF	± 2.5%	± 5%	± 10%	± 20%
R 700 to R 2000		± 10%	± 20%	- 20 + 50%	
R 4000 to R 6000			± 20%	- 20 + 50%	-20 + 80%

**ORDERING INFORMATION**

RDLL 0216	160V <sub>DC</sub>	12000pF	± 20%	R 6000
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Vishay Draloric

**Ceramic Singlelayer Tubular Capacitors 400V<sub>DC</sub>**

**DESIGN:**

Tubular capacitor completely lacquered (RDLL)  
 Tubular capacitor with brown phenol resin coating, impregnated (RDLT)

**RATED VOLTAGE U<sub>R</sub>:**

400V<sub>DC</sub> (280V<sub>RMS</sub>)

**DIELECTRIC STRENGTH BETWEEN LEADS:**

1250V<sub>DC</sub> 1s

**DISSIPATION FACTOR tan δ:**

Ceramic Class 1: see General Information  
 Ceramic Class 2:  $\leq 25 \cdot 10^{-3}$

**INSULATION RESISTANCE R<sub>IS</sub>:**

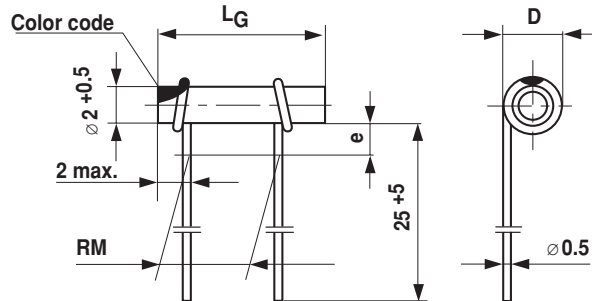
Ceramic Class 1:  $\geq 1 \cdot 10^{10} \Omega$   
 Ceramic Class 2:  $\geq 5 \cdot 10^9 \Omega$

**CATEGORY TEMPERATURE RANGE  $\vartheta_A$ :**

Ceramic Class 1: (- 55 to + 125)°C  
 Ceramic Class 2: (- 25 to + 85)°C

**CLIMATIC CATEGORY ACC. TO EN 60068-1:**

RDLL 40 / 085 / 21  
 RDLT 55 / 085 / 56



• Dimensions in mm

	<b>RDLL</b>	<b>RDLT</b>
Coating extension e	2 max.	3 max.
Overall length L <sub>G</sub>	L <sup>+1</sup> max.	L <sup>+2</sup> max.
Overall diameter D	3.5 max.	4.5 max.

**MARKING:**

Capacitance value, Tolerance letter,  
 Rated Voltage (RDL. 0216 & 0220 only)  
 Ceramic dielectric color code

CLASS	CERAMIC DIELECTRIC	CAPACITANCE VALUES (pF) AT NOMINAL TUBE LENGTH L (mm)				
		10 (0210)	12 (0212)	14 (0214)	16 (0216)	20 (0220)
1B	P 100	3.9 to 12	to 18	to 24	to 30	to 43
	NP 0	9.1 to 20	to 30	to 43	to 56	to 82
	N 033	9.1 to 22	to 39	to 51	to 62	to 91
	N 075	10 to 27	to 43	to 56	to 68	to 91
	N 150	10 to 30	to 47	to 62	to 82	to 110
	N 220	10 to 33	to 51	to 75	to 91	to 130
	N 330	12 to 39	to 56	to 82	to 100	to 140
	N 470	16 to 47	to 68	to 91	to 120	to 160
2	N 750	27 to 75	to 120	to 160	to 200	to 270
	R 700	180 to 300	to 510	to 680	to 910	to 1200
	R 1400	470 to 820	to 1200	to 1600	to 2000	to 3000
	R 2000	620 to 910	to 1500	to 2100	to 2700	to 3900
	R 4000	1000 to 1800	to 2700	to 4300	to 5600	to 7500
	R 6000	1800 to 3300	to 4700	to 6800	to 8200	to 12000
Lead spacing RM (mm)		5 ± 0.7	5 ± 0.7	7.5 ± 0.7	10 ± 0.7	15 ± 0.7

CERAMIC DIELECTRIC	NOMINAL VALUE	CAPACITANCE TOLERANCE			
P100 to N 750	< 10pF	± 0.25pF	± 0.5pF	± 1pF	± 2pF
	≥ 10 to 24pF	± 2%	± 5%	± 10%	± 20%
	> 24pF	± 1%	± 2%	± 5%	± 10%± 20%
R 700 to R 2000		± 10%	± 20%	- 20 + 50%	
R 4000 to R 6000			± 20%	- 20 + 50%	- 20 + 80%

<b>ORDERING INFORMATION</b>				
RDLL 0220	400V <sub>DC</sub>	270pF	± 20%	N 750



## Disclaimer

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

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