Ceramic Singlelayer Tubular Capacitors 400V_{DC}

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

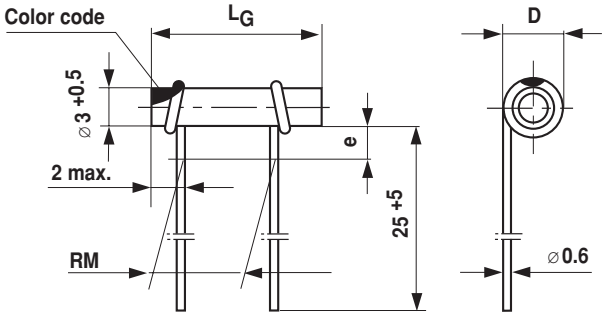
RATED VOLTAGE U_R:
400V_{DC} (280V_{RMS})

DIELECTRIC STRENGTH BETWEEN LEADS:
1250V_{DC}, 1s

DISSIPATION FACTOR tan δ:
Ceramic Class 1: see General Information
Ceramic Class 2: ≤ 25 • 10^{-3}

INSULATION RESISTANCE R_{IS}:
Ceramic Class 1: ≥ 1 • 10^{10} Ω
Ceramic Class 2: ≥ 5 • 10^{9} Ω

CATEGORY TEMPERATURE RANGE ϑ_A:
Ceramic Class 1: (- 55 to +125)˚C
Ceramic Class 2: (- 25 to + 85)˚C



• Dimensions in mm

	RDLL	RDLT
Coating extension e	2 max.	3 max.
Overall length L_G	L^{+1} max.	L^{+2} max.
Overall diameter D	5.0 max.	6.0 max.

CLIMATIC CATEGORY ACC. TO EN 60068-1:
RDLL 40 / 085 / 21
RDLT 55 / 085 / 56

MARKING:
Capacitance value, Tolerance letter, Ceramic dielectric color code

CLASS	CERAMIC DIELECTRIC	CAPACITANCE VALUES (pF) AT NOMINAL TUBE LENGTH L (mm)							
		10 (0310)	10 (0310)	12 (0312)	14 (0314)	16 (0316)	20 (0320)	25 (0325)	30 (0330)
1 B	P 100	1.0 to 1.6	to 8.2	to 15	to 20	to 27	to 39	to 56	to 75
	NP 0	2.0 to 8.1	to 22	to 39	to 56	to 75	to 100	to 140	to 180
	N 033	2.0 to 8.4	to 22	to 39	to 56	to 75	to 110	to 150	to 180
	N 075	2.0 to 8.8	to 27	to 43	to 56	to 75	to 110	to 150	to 200
	N 150	2.0 to 9.3	to 27	to 47	to 62	to 82	to 120	to 160	to 220
	N 220	2.0 to 9.9	to 27	to 51	to 75	to 91	to 130	to 180	to 240
	N 330	2.0 to 10.9	to 27	to 56	to 82	to 100	to 150	to 200	to 270
	N 470	3.0 to 12	to 39	to 68	to 91	to 120	to 160	to 220	to 300
	N 750	4.7 to 21	to 51	to 100	to 130	to 160	to 240	to 330	to 470
1 F	N 1500	10 to 39	to 62	to 130	to 180	to 220	to 330	to 430	to 620
2	R 700		200 to 270	to 600	to 820	to 1000	to 1500	to 2000	to 2400
	R 1400		430 to 910	to 1500	to 2000	to 2400	to 3300	to 4700	to 5600
	R 2000		680 to 1000	to 1800	to 2400	to 3300	to 4700	to 6200	to 8200
	R 4000		1000 to 2200	to 3300	to 4300	to 5600	to 8200	to 10000	to 15000
	R 6000		2200 to 3300	to 4700	to 6800	to 8200	to 12000	to 15000	to 20000
Lead spacing RM (mm)		5^{+2}	5 ± 0.7	7.5 ± 0.7	7.5 ± 0.7	10 ± 0.7	15 ± 0.7	17.5 ± 0.7	20 ± 0.7

CERAMIC DIELECTRIC	NOMINAL VALUE	CAPACITANCE TOLERANCE				
P 100 to N 750	< 10pF		± 0.2pF	± 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			± 20%	- 20 + 50%	- 20 + 80 %	
R 6000				- 20 + 50%	- 20 + 80 %	

ORDERING INFORMATION				
RDLL 0314	400V_{DC}	56pF	± 20%	N 750

Vishay Draloric

Ceramic Singlelayer Tubular Capacitors 400V_{DC} with Narrowed αc-tolerance (Class 1A)

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

RATED VOLTAGE U_R:
400V_{DC} (280V_{RMS})

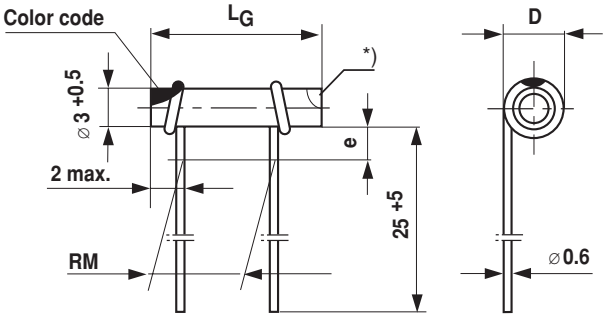
DIELECTRIC STRENGTH BETWEEN LEADS:
1250$V_{DC,}$ 1s

DISSIPATION FACTOR tan δ:
See General Information

INSULATION RESISTANCE R_{IS}:
$\geq 1 \cdot 10^{10}\ \Omega$

CATEGORY TEMPERATURE RANGE ϑ_A:
(- 55 to + 125)°C

CLIMATIC CATEGORY ACC. TO EN 60068-1:
RDLL 40 / 085 / 21
RDLT 55 / 085 / 56



• Dimensions in mm

*additional white color dot at the outer electrode terminals indicates narrowed αc-tolerance

	RDLL	RDLT
Coating extension e	2 max.	3 max.
Overall length L_G	L^{+1} max.	L^{+2} max.
Overall diameter D	5.0 max.	7.0 max.

MARKING:
Capacitance value, Tolerance letter, Ceramic dielectric color code

CERAMIC DIELECTRIC	CLASS 1A-αc-TOLERANCE (10^{-6}/°C)		CAPACITANCE VALUES (pF) AT NOMINAL TUBE LENGTH L (mm)						
	15 to 20pF	>20pF	10 (0310)	12 (0312)	14 (0314)	16 (0316)	20 (0320)	25 (0325)	30 (0330)
P 100	± 20	±15	---	15	to 20	to 27	to 39	to 56	to 75
NP 0	± 20	±15	15 to 22	to 39	to 56	to 75	to 100	to 140	to 180
N 033	± 20	±15	15 to 22	to 39	to 56	to 75	to 110	to 150	to 180
N 075	± 20	±15	15 to 27	to 43	to 56	to 75	to 110	to 150	to 200
N 150	± 20	±15	15 to 27	to 47	to 62	to 82	to 120	to 160	to 220
N 220	± 20	±15	15 to 27	to 51	to 75	to 91	to 130	to 180	to 240
N 330	± 35	± 25	15 to 27	to 56	to 82	to 100	to 150	to 200	to 270
N 470	± 50	± 35	15 to 39	to 68	to 91	to 120	to 160	to 220	to 300
N 750	± 80	± 60	15 to 51	to 100	to 130	to 160	to 240	to 330	to 470
Lead spacing RM (mm)			5 ± 0.7	7.5 ± 0.7	7.5 ± 0.7	10 ± 0.7	15 ± 0.7	17.5 ± 0.7	20 ± 0.7

CERAMIC DIELECTRIC	NOMINAL VALUE	CAPACITANCE TOLERANCE					
P 100 to N 750	15 to 24pF		± 2%	± 5%	± 10%	± 20%	
	> 24pF	± 1%	± 2%	± 5%	± 10%	± 20%	

ORDERING INFORMATION				
RDLL 0330	400V_{DC}	200pF	± 20%	N 150 / 1A

For technical questions, contact slcap@vishay.com

Disclaimer

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