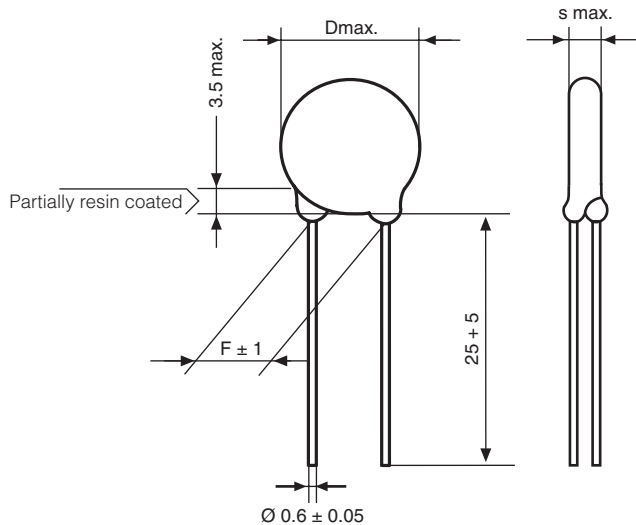


Ceramic Disc Capacitors, Class 1



* Dimensions in mm

DESIGN:

Disc capacitors with phenol resin coating



RoHS
COMPLIANT

RATED VOLTAGE U_R :

500 V_{DC}

DIELECTRIC STRENGTH BETWEEN LEADS:

Component test

1250 V_{DC} 2 s

DISSIPATION FACTOR $\tan \delta$:

C < pF : see note in General Information

C < 30 pF : $\leq \left(\frac{100}{C} + 7 \right) \cdot 10^{-4}$

C ≥ 30 pF : $\leq 10 \cdot 10^{-4}$

INSULATION RESISTANCE R_{is} :

$\geq 1 \cdot 10^{10} \Omega$

MARKING:

Capacitance value

Code acc. IEC 60062

Capacitance tolerance

with letter code

Ceramic dielectric

with colour band or letter code
(see General Information)

COATING:

Phenol resin, dipped

TEMPERATURE COEFFICIENT OF CAPACITANCE:

See diagrams in General Information

Other ceramic dielectrics are available on request

CATEGORY TEMPERATURE RANGE ϑ_A :

(- 40 to + 85) °C

TAPING AND SPECIAL LEAD CONFIGURATIONS:

On request

CLIMATIC CATEGORY ACC. TO EN 60068-1:

40 / 085 / 21

ORDERING INFORMATION

RLA	927	C	AQ	BY0	S1	R
MODEL	CAPACITANCE VALUE	TOLERANCE	RATED VOLTAGE	LEAD CONFIGURATION	INTERNAL CODE	RoHS COMPLIANT



ORDERING INFORMATION, CERAMIC DISC CAPACITORS, 500 V (DC)							
C (pF)	TOL. (%)	D x s (mm)	F ± 1 * (mm)	d ± 0.05 * (mm)	CERAMIC CODE	ORDERING CODE	
CLASS 1 P 100							
1.0	C < 10 pF ± 0.25 pF ± 0.5 pF	7.5 x 5.0	5.0	0.6	Red color dot or Letter A	RLA910 AQ S1R	
1.1		7.5 x 5.0				RLA911 AQ S1R	
1.2		7.5 x 5.0				RLA912 AQ S1R	
1.3		7.5 x 5.0				RLA913 AQ S1R	
1.5		7.5 x 5.0				RLA915 AQ S1R	
1.6		7.5 x 5.0				RLA916 AQ S1R	
1.8		7.5 x 5.0				RLA918 AQ S1R	
2.0		7.5 x 5.0				RLA920 AQ S1R	
2.2		7.5 x 5.0				RLA922 AQ S1R	
2.4		7.5 x 5.0				RLA924 AQ S1R	
2.7		7.5 x 5.0				RLA927 AQ S1R	
3.0		7.5 x 5.0				RLA930 AQ S1R	
3.3		7.5 x 5.0				RLA933 AQ S1R	
3.6		C ≥ 10 pF				7.5 x 5.0	RLA936 AQ S1R
3.9		± 5 %				7.5 x 5.0	RLA939 AQ S1R
4.3	± 10 %	10.0 x 5.0				RLA943 AQ S1R	
4.7		10.0 x 5.0				RLA947 AQ S1R	
5.1		10.0 x 5.0				RLA951 AQ S1R	
5.6		10.0 x 5.0				RLA956 AQ S1R	
6.2		10.0 x 5.0				RLA962 AQ S1R	
6.8		10.0 x 5.0				RLA968 AQ S1R	
7.5		10.0 x 5.0				RLA975 AQ S1R	
8.2		10.0 x 5.0				RLA982 AQ S1R	
9.1		14.0 x 5.0				RLA991 AQ S1R	
10		14.0 x 5.0	7.5			RLA100 AQ S1R	
CLASS 1 NP 0							
1.5	C < 10 pF ± 0.25 pF ± 0.5 pF	7.5 x 5.0	5.0	0.6	Black color dot or Letter C	RLC915 AQ S1R	
1.6		7.5 x 5.0				RLC916 AQ S1R	
1.8		7.5 x 5.0				RLC918 AQ S1R	
2.0		7.5 x 5.0				RLC920 AQ S1R	
2.2		7.5 x 5.0				RLC922 AQ S1R	
2.4		7.5 x 5.0				RLC924 AQ S1R	
2.7		7.5 x 5.0				RLC927 AQ S1R	
3.0		7.5 x 5.0				RLC930 AQ S1R	
3.3		7.5 x 5.0				RLC933 AQ S1R	
3.6		7.5 x 5.0				RLC936 AQ S1R	
3.9		7.5 x 5.0				RLC939 AQ S1R	
4.3		7.5 x 5.0				RLC943 AQ S1R	
4.7		7.5 x 5.0				RLC947 AQ S1R	
5.1		7.5 x 5.0				RLC951 AQ S1R	
5.6		7.5 x 5.0				RLC956 AQ S1R	
6.2	C ≥ 10 pF	7.5 x 5.0				RLC962 AQ S1R	
6.8	± 5 %	7.5 x 5.0				RLC968 AQ S1R	
7.5	± 10 %	7.5 x 5.0				RLC975 AQ S1R	
8.2		7.5 x 5.0				RLC982 AQ S1R	
9.1		7.5 x 5.0				RLC991 AQ S1R	
10		10.0 x 5.0				RLC100 AQ S1R	
11		10.0 x 5.0				RLC110 AQ S1R	
12		10.0 x 5.0				RLC120 AQ S1R	
13		10.0 x 5.0				RLC130 AQ S1R	
15		10.0 x 5.0				RLC150 AQ S1R	
16		14.0 x 5.0	7.5			RLC160 AQ S1R	
18		14.0 x 5.0				RLC180 AQ S1R	
20		14.0 x 5.0				RLC200 AQ S1R	
22		14.0 x 5.0				RLC220 AQ S1R	

* Standard lead configuration, other lead spacing and diameter available on request.

ORDERING CODE			
☐	7th digit	Capacitance tolerance	± 0.25 pF = C ± 0.5 pF = D ± 5 % = J ± 10 % = K
☐	10th / 11th / 12th digit	Lead configuration (See General Information)	
R	14th digit	RoHS Compliant Component	

ORDERING INFORMATION, CERAMIC DISC CAPACITORS, 500 V (DC)

C (pF)	TOL. (%)	D x s (mm)	F ± 1 * (mm)	d ± 0.05 * (mm)	CERAMIC CODE	ORDERING CODE	
CLASS 1 N 150							
2.2	<u>C < 10 pF</u> ± 0.25 pF ± 0.5 pF	7.5 x 5.0	5.0	0.6	Orange color dot or Letter P	RLP922 AQ S1R	
2.4		7.5 x 5.0				RLP924 AQ S1R	
2.7		7.5 x 5.0				RLP927 AQ S1R	
3.0		7.5 x 5.0				RLP930 AQ S1R	
3.3		7.5 x 5.0				RLP933 AQ S1R	
3.6		7.5 x 5.0				RLP936 AQ S1R	
3.9		7.5 x 5.0				RLP939 AQ S1R	
4.3		7.5 x 5.0				RLP943 AQ S1R	
4.7		7.5 x 5.0				RLP947 AQ S1R	
5.1		7.5 x 5.0				RLP951 AQ S1R	
5.6		7.5 x 5.0				RLP956 AQ S1R	
6.2		7.5 x 5.0				RLP962 AQ S1R	
6.8		7.5 x 5.0				RLP968 AQ S1R	
7.5		7.5 x 5.0				RLP975 AQ S1R	
8.2		7.5 x 5.0				RLP982 AQ S1R	
9.1		7.5 x 5.0				RLP991 AQ S1R	
10		<u>C ≥ 10 pF</u> ± 5 % ± 10 %				7.5 x 5.0	RLP100 AQ S1R
11						10.0 x 5.0	RLP110 AQ S1R
12						10.0 x 5.0	RLP120 AQ S1R
13						10.0 x 5.0	RLP130 AQ S1R
15						10.0 x 5.0	RLP150 AQ S1R
16						10.0 x 5.0	RLP160 AQ S1R
18						10.0 x 5.0	RLP180 AQ S1R
20						10.0 x 5.0	RLP200 AQ S1R
22	10.0 x 5.0	RLP220 AQ S1R					
24	10.0 x 5.0	RLP240 AQ S1R					
27	14.0 x 5.0	RLP270 AQ S1R					
30	14.0 x 5.0	RLP300 AQ S1R					
33	14.0 x 5.0	RLP330 AQ S1R					
CLASS 1 N 750							
3.3	<u>C < 10 pF</u> ± 0.25 pF ± 0.5 pF	7.5 x 5.0	5.0	0.6	Violet color dot or Letter U	RLU933 AQ S1R	
3.6		7.5 x 5.0				RLU936 AQ S1R	
3.9		7.5 x 5.0				RLU939 AQ S1R	
4.3		7.5 x 5.0				RLU943 AQ S1R	
4.7		7.5 x 5.0				RLU947 AQ S1R	
5.1		7.5 x 5.0				RLU951 AQ S1R	
5.6		7.5 x 5.0				RLU956 AQ S1R	
6.2		7.5 x 5.0				RLU962 AQ S1R	
6.8		7.5 x 5.0				RLU968 AQ S1R	
7.5		7.5 x 5.0				RLU975 AQ S1R	
8.2		7.5 x 5.0				RLU982 AQ S1R	
9.1		7.5 x 5.0				RLU991 AQ S1R	
10		<u>C ≥ 10 pF</u> ± 5 % ± 10 %				7.5 x 5.0	RLU100 AQ S1R
11						7.5 x 5.0	RLU110 AQ S1R
12						7.5 x 5.0	RLU120 AQ S1R
13						7.5 x 5.0	RLU130 AQ S1R
15						7.5 x 5.0	RLU150 AQ S1R
16						7.5 x 5.0	RLU160 AQ S1R
18						7.5 x 5.0	RLU180 AQ S1R
20						7.5 x 5.0	RLU200 AQ S1R
22						7.5 x 5.0	RLU220 AQ S1R
24						7.5 x 5.0	RLU240 AQ S1R
27						7.5 x 5.0	RLU270 AQ S1R
30						10.0 x 5.0	RLU300 AQ S1R
33						10.0 x 5.0	RLU330 AQ S1R
36						10.0 x 5.0	RLU360 AQ S1R
39						10.0 x 5.0	RLU390 AQ S1R
43						10.0 x 5.0	RLU430 AQ S1R
47						10.0 x 5.0	RLU470 AQ S1R
51						10.0 x 5.0	RLU510 AQ S1R
56						10.0 x 5.0	RLU560 AQ S1R
62						14.0 x 5.0	RLU620 AQ S1R
68		14.0 x 5.0				RLU680 AQ S1R	

* Standard lead configuration, other lead spacing and diameter available on request.



ORDERING INFORMATION, CERAMIC DISC CAPACITORS, 500 V (DC)						
C (pF)	TOL. (%)	D x s (mm)	F ± 1 * (mm)	d ± 0.05 * (mm)	CERAMIC CODE	ORDERING CODE
CLASS 1 N 1500						
3.3	C < 10 pF ± 0.25 pF ± 0.5 pF	7.0 x 5.0	5.0	0.6	Orange / Orange color dots or Letter V	RLV933 AQ S1R
3.6		7.0 x 5.0				RLV936 AQ S1R
3.9		7.0 x 5.0				RLV939 AQ S1R
4.3		7.0 x 5.0				RLV943 AQ S1R
4.7		7.0 x 5.0				RLV947 AQ S1R
5.1		7.0 x 5.0				RLV951 AQ S1R
5.6		7.0 x 5.0				RLV956 AQ S1R
6.2		7.0 x 5.0				RLV962 AQ S1R
6.8		7.0 x 5.0				RLV968 AQ S1R
7.5		7.0 x 5.0				RLV975 AQ S1R
8.2		7.0 x 5.0				RLV982 AQ S1R
9.1		7.0 x 5.0				RLV991 AQ S1R
10		7.0 x 5.0				RLV100 AQ S1R
11		7.0 x 5.0				RLV110 AQ S1R
12		7.0 x 5.0				RLV120 AQ S1R
13		7.0 x 5.0				RLV130 AQ S1R
15		7.0 x 5.0				RLV150 AQ S1R
16		7.0 x 5.0				RLV160 AQ S1R
18		7.0 x 5.0				RLV180 AQ S1R
20	C ≥ 10 pF ± 5 % ± 10 %	7.0 x 5.0				RLV200 AQ S1R
22		7.0 x 5.0				RLV220 AQ S1R
24		7.0 x 5.0				RLV240 AQ S1R
27		7.0 x 5.0				RLV270 AQ S1R
30		7.0 x 5.0				RLV300 AQ S1R
33		7.0 x 5.0				RLV330 AQ S1R
36		7.0 x 5.0				RLV360 AQ S1R
39		7.0 x 5.0				RLV390 AQ S1R
43		7.0 x 5.0				RLV430 AQ S1R
47		7.0 x 5.0				RLV470 AQ S1R
51		10.0 x 5.0	RLV510 AQ S1R			
56		10.0 x 5.0	RLV560 AQ S1R			
62		10.0 x 5.0	RLV620 AQ S1R			
68		10.0 x 5.0	RLV680 AQ S1R			
75		10.0 x 5.0	RLV750 AQ S1R			
82		14.0 x 5.0	RLV820 AQ S1R			
91		14.0 x 5.0	RLV910 AQ S1R			
100		14.0 x 5.0	RLV101 AQ S1R			

* Standard lead configuration, other lead spacing and diameter available on request.

ORDERING CODE			
□	7th digit	Capacitance tolerance	± 0.25 pF = C ± 0.5 pF = D ± 5 % = J ± 10 % = K
□□□	10th / 11th / 12th digit	Lead configuration (See General Information)	
R	14th digit	RoHS Compliant Component	

ORDERING INFORMATION, CERAMIC DISC CAPACITORS, 500 V (DC)

C (pF)	TOL. (%)	D x s (mm)	F ± 1 * (mm)	d ± 0.05 * (mm)	CERAMIC CODE	ORDERING CODE
CLASS 1 N 2200						
5.6	<u>C < 10 pF</u> ± 0.25 pF ± 0.5 pF <u>C ≥ 10 pF</u> ± 5 % ± 10 %	7.0 x 5.0	5.0	0.6	Yellow / Orange color dots or Letter K	RLK956 AQ S1R
6.2		7.0 x 5.0				RLK962 AQ S1R
6.8		7.0 x 5.0				RLK968 AQ S1R
7.5		7.0 x 5.0				RLK975 AQ S1R
8.2		7.0 x 5.0				RLK982 AQ S1R
9.1		7.0 x 5.0				RLK991 AQ S1R
10		7.0 x 5.0				RLK100 AQ S1R
11		7.0 x 5.0				RLK110 AQ S1R
12		7.0 x 5.0				RLK120 AQ S1R
13		7.0 x 5.0				RLK130 AQ S1R
15		7.0 x 5.0				RLK150 AQ S1R
16		7.0 x 5.0				RLK160 AQ S1R
18		7.0 x 5.0				RLK180 AQ S1R
20		7.0 x 5.0				RLK200 AQ S1R
22		7.0 x 5.0				RLK220 AQ S1R
24		7.0 x 5.0				RLK240 AQ S1R
27		7.0 x 5.0				RLK270 AQ S1R
30		7.0 x 5.0				RLK300 AQ S1R
33		7.0 x 5.0				RLK330 AQ S1R
36		7.0 x 5.0				RLK360 AQ S1R
39		7.0 x 5.0				RLK390 AQ S1R
43		7.0 x 5.0				RLK430 AQ S1R
47		7.0 x 5.0				RLK470 AQ S1R
51		7.0 x 5.0				RLK510 AQ S1R
56		7.0 x 5.0				RLK560 AQ S1R
62		10.0 x 5.0				RLK620 AQ S1R
68		10.0 x 5.0				RLK680 AQ S1R
75		10.0 x 5.0				RLK750 AQ S1R
82		10.0 x 5.0				RLK820 AQ S1R
91		10.0 x 5.0				RLK910 AQ S1R
100		10.0 x 5.0				RLK101 AQ S1R
110		10.0 x 5.0				RLK111 AQ S1R
120		10.0 x 5.0				RLK121 AQ S1R
130	14.0 x 5.0	RLK131 AQ S1R				
150	14.0 x 5.0	RLK151 AQ S1R				
160	14.0 x 5.0	RLK161 AQ S1R				
180	14.0 x 5.0	RLK181 AQ S1R				
CLASS 1 N 5600						
36	± 5 % ± 10 %	7.0 x 5.0	5.0	0.6	Blue / Orange color dots or Letter M	RLM360 AQ S1R
39		7.0 x 5.0				RLM390 AQ S1R
47		7.0 x 5.0				RLM470 AQ S1R
56		7.0 x 5.0				RLM560 AQ S1R
68		7.0 x 5.0				RLM680 AQ S1R
82		7.0 x 5.0				RLM820 AQ S1R
100		7.0 x 5.0				RLM101 AQ S1R
120		7.0 x 5.0				RLM121 AQ S1R
150		10.0 x 5.0				RLM151 AQ S1R
180		10.0 x 5.0				RLM181 AQ S1R
220		10.0 x 5.0				RLM221 AQ S1R
270		10.0 x 5.0				RLM271 AQ S1R
330		10.0 x 5.0				RLM331 AQ S1R

* Standard lead configuration, other lead spacing and diameter available on request.

ORDERING CODE

□	7th digit	Capacitance tolerance	± 0.25 pF = C ± 0.5 pF = D ± 5 % = J ± 10 % = K
□□□	10th / 11th / 12th digit	Lead configuration (See General Information)	
R	14th digit	RoHS Compliant Component	



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.