

Singlelayer Ceramic Capacitors



Vishay

FEATURES

- Class 1 and Class 2 Ceramic Dielectric
- Disc and Tubular Styles
- Feed Through Capacitors and Filters
- Ceramic RFI and Safety Capacitors see appropriate section

PRODUCT DESCRIPTION	TYPE	CAPACITANCE RANGE pF/ μ F	VOLTAGE V dc	TEMPERATURE RATING °C		TOL. \pm %	DIMENSIONS (MM)		
				MIN	MAX		BODY WIDTH	BODY \varnothing	LEAD \varnothing
Ceramic Single Layer Disc Capacitors Class 1 and Class 2 Ceramic Dielectric	RLA	1-10 pF	500	-40	85	5, 10	5.0	7-14	0.6
	RLC	1.5-22pF	500	-40	85	5, 10	5.0	7-14	0.6
	RLP	2.2-33 pF	500	-40	85	5, 10	5.0	7-14	0.6
	RLU	3.3-68 pF	500	-40	85	5, 10	5.0	7-14	0.6
	RLV	3.3-100 pF	500	-40	85	5, 10	5.0	7-14	0.6
	RLK	5.6-180pF	500	-40	85	5, 10	5.0	7-14	0.6
	RIE	470pF-0.01 μ F	500	-40	85	-20/+50	4.0	6-15	0.6
	RIZ	10-4700 pF	500	-40	85	10,20	4.0	6-13	0.6
Ceramic Single Layer Disc Capacitors High Voltage Disc Capacitors Class 1 Ceramic Dielectric	HAU	10-680pF	1000	-40	85	10	3.5	7-16.5	0.6/0.8
	HBU	10-470pF	2000	-40	85	10	4.2	7-17	0.6/0.8
	HCU	10-330pF	3000	-40	85	10	4.4	7-17	0.6/0.8
	HDU	10-470pF	4000	-40	85	10	4.7	7-20	0.6/0.8
	HEU	22-330pF	5000	-40	85	10	5.2	7-19.5	0.6/0.8
	HFU	10-330pF	6000	-40	85	10	5.2	7-20	0.6/0.8
Ceramic Single Layer Disc Capacitors High Voltage Disc Capacitors Class 2 Ceramic Dielectric	HAZ	47-4700 pF	1000	-40	85	10, 20	3.0	7-15	0.6
	HAE	1000-0.01 μ F	1000	-40	85	20	3.0	7-15	0.6
	HAX	2200 pF-0.022 μ F	1000	-40	85	-20/+50	3.0	7-18	0.6
	HBZ	56-4700 pF	2000	-40	85	10, 20	3.0	7-17	0.6
	HBE	680 pF-0.01 μ F	2000	-40	85	20	3.0	7-17	0.6
	HBX	1500 pF-0.022 μ F	2000	-40	85	-20/+50	3.0	7-20	0.6
	HCZ	68-6800 pF	3000	-40	85	10, 20	4.0	7-25	0.6/0.8
	HCE	470 pF-0.01 μ F	3000	-40	85	20	4.0	7-25	0.6/0.8
	HCX	680 pF-0.015 μ F	3000	-40	85	-20/+50	4.0	7-21	0.6/0.8
	HDE	33-4700 pF	4000	-40	85	20	6.5	8-18	0.6/0.8
	HEE	220-2200 pF	5000	-40	85	20	6.5	12-17	0.6/0.8
	HFZ	56-2700 pF	6000	-40	85	20	5.0	7-25	0.6/0.8
	HFE	150-6800 pF	6000	-40	85	20	5.0	7-23	0.6/0.8
	HGZ	100-2200 pF	8000	-40	85	20	8.3	9-24	0.8
	HHZ	100-1200 pF	10000	-40	85	20	9.0	16-21	0.8
	HIZ	100-820 pF	15000	-40	85	20	11.0	12-21	0.8
Ceramic Single Layer Disc Capacitors Ceramic Pulse Disc Capacitors	IEL	12-36pF	25000	-40	125	20	8.5	10	0.8
	HAK	100-4700 pF	1000	-40	125	20	5.0	7-16.5	0.6
	HBK	100-4700 pF	2000	-40	125	20	5.0	7-25	0.6
	HCK	100-3300 pF	3000	-40	125	20	5.0	7-20	0.6
	HIK	100-1500 pF	15000	-40	125	20	9.0	8-24	0.8
	IBC	100-1500 pF	2000	-40	85	20	6.0	7.5-19	0.6/0.8



ADDITIONAL INFORMATION

Class 1 ceramics

- High Stability
- Low Dissipation Factor
- Defined Temperature Coefficient

Class 2 ceramics

- Large Capacitance in Small Dimensions
- Non-linear Temperature Characteristic

PRODUCT DESCRIPTION	TYPE	CLASS	CAPACITANCE RANGE pF	RATED VOLTAGE VDC	BODY DIAMETER MM	LEAD SPACING MM ± 0.7	
Tubular Capacitors RDLL: lacquered RDLT: resin coated and impregnated. Styles available with narrowed ac-tolerance or controlled short-term stability	RDPT 02..	1	3-220pF	125/250	3.5	3.3-10.6	
		2	10pF-0.010uF			3.3-10.6	
	RDLL/ RDLT 02..	1	2.2-220pF	160	3.5 RDLL	5-7.5	
		2	180pF-0.012uF		4.5 RDLT		
	RDLL/ RDLT 02	1	3.9-270pF	400	3.5 RDLL	5-15	
2		180pF-0.012uF		4.5 RDLT			
RDLL/ RDLT 03	1	1.0-620pF	400	5.0 RDLL	5-20		
	2	200pF-0.20uF		6.0 RDLT			
RDLL/ RDLT 04	1	11-620pF	700	6.0 RDLL	10-30		
	2	430pF-0.015uF		8.0 RDLT			
Tubular Capacitor sets	MDLL/ MDLT	1	Values result from the individual tubes	400/700			
		2					
Feed Through Capacitors with solderable metallic sleeve or thread and various conductor designs	DDLK 03..	1	1.5-200pF	400	3.3	7-16	solderable
		2	180-6800pF				
	D.ML 0312	1	5-120pF	250	3.3	12	M5X0.5
		2	600-3200pF				
	DDMZ 0315	1	47-220pF	250	-	16	M5 x 0.5
		2	240-4700pF				
	DVML 0416	1	25-400pF	400	4.3	16	M6x0.75
2		500-5000pF					
DVZL 0425	2	0.010uF	400	4.3	25	M6x0.75	
DDML 0825	2	1000-3300pF	2000	9.0	25	M10 x 1	
Feed Through Filters with solderable metallic sleeve or thread and various conductor designs	DDNL 0409	2	1600	400	4.3	9	solderable
	DDML 0310	2	3000	200	-	10	M5x0.5
	DDMZ 0315	2	5000	200	-	12	12-32 UNEF
	DDML 0409	2	1600	400	4.3	9	M6x0.5
	DDML 0416	2	3200	400	4.3	16	M6x0.5
	DDML 0420	2	7000	400	4.3	20	M6x0.5

Disc Ceramic Capacitors

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PRODUCT DESCRIPTION	TYPE	RATED VOLTAGE Vdc	CAPACITANCE VALUE	TEMPERATURE COEFFICIENT	DISSIPATION FACTOR %	INSULATION RESISTANCE ΩF
Hypercon Construction High Capacitance Discs Class IV Ceramic 563C Series	HY	12	0.05μF - 0.47μF	Y5R	5%	2.5
	HY	25	0.01μF - 0.10μF	Y5R	5%	5
	HY	50	0.01μF - 0.10μF	Y5R	4%	25
	HM	100	0.0022μF - 0.10μF	Y5S	3%	100
Disc Capacitors General Purpose 100 Volt DC 562C Series 500 Volt DC 562C Series 1000 Volt DC 562C Series	TG, TS	100	10pF - 0.10μF	Various	3%	500
	5HK, 5GA, 5TS	500	1000pF - 0.20μF	Various	3%	750
	5HK, 5GA, 10HK, 10GA	1000	10pF - 0.15μF	Various	2.5%	1000
Disc Capacitors Temperature Stabilized 1000 Volt DC 10% tolerance 562C Series	10TS	1000	10pF - 0.01μF	Various	2%	1000
Disc Capacitors Precision 1000 Volt DC 5% tolerance 561C Series	10TC	1000	1pF - 1000pF	NPO; N750; S3L	0.1%	1000
Disc Capacitors Low Dissipation Factor 0.1% at 1kHz 561C and 564C Series	1DF0	1000	10pF - 6800pF	NPO - N2800	0.1% at 1kHz	1000
	2DF0	2000	10pF - 6800pF	NPO - N2800	0.1% at 1kHz	1000
	3DF0	3000	10pF - 4700pF	N1500 - N2800	0.1% at 1kHz	1000
Disc Capacitors High Voltage 2000 - 7500Vdc 564C Series	20GA, 20TS	2000	100pF - 0.1μF	Various	2%	1000
	30GA, 30TS	3000	10pF - 0.033μF	Various	2%	1000
	60GA	6000	10pF - 0.01μF	Various	2%	1000
	75GA	7500	100pF - 2500pF	Various	2%	1000
Disc Capacitors High Voltage 10000 and 15000Vdc 615C Series	100GA	10000	100pF - 3000pF	Various	0.2%, 2%	1000
	150GA	15000	100pF - 2500pF	Various	0.2%, 2%	1000
Axial Leaded High Voltage Capacitors Molded Case, High Temperature Epoxy Construction 660C Series	10A	10000	470pF - 10000pF	N4700, X7R, Z5U	0.2%, 2%	1000
	15A	15000	390pF - 6800pF	N4700, X7R, Z5U	0.2%, 2%	1000
	20A	20000	220pF - 5000pF	N4700, X7R, Z5U	0.2%, 2%	1000
	30A	30000	180pF - 3300pF	N4700, X7R, Z5U	0.2%, 2%	1000
Custom Disc Capacitors 561C, 562C, 564C Series	Custom Disc Capacitors	500, 1000, 2000, 3000 and 6000Vdc Custom Disc Capacitors, Class I, II, and III Ceramic Materials. Lead Forming and Packaging Options Available.				
Heavy Duty High Voltage Capacitors Molded Epoxy Case Screw Terminals 715C Series	15DK	15000	1500pF - 10000pF	Y5U	2%	1000
	20DK	20000	500pF - 6800pF	Y5U	2%	1000
	30DK	30000	500pF - 4700pF	Y5U	2%	1000
	40DK	40000	300pF - 3300pF	Y5U	2%	1000
	10KT	10000	1000pF - 4700pF	N4700	0.2%	1000
	15KT	15000	820pF - 3300pF	N4700	0.2%	1000
	20KT	20000	560pF - 2700pF	N4700	0.2%	1000
	30KT	30000	400pF - 1800pF	N4700	0.2%	1000
	40KT	40000	300pF - 1300pF	N4700	0.2%	1000
RF Duty High Voltage Capacitors	5F	5000	RF Duty High Voltage Capacitors at 5 and 7.5KVDC, 1.5 to 10 Amperes.			
	7FA	7500	Various Body Styles.			
Unencapsulated Temperature Stabilized Capacitors	722C	20000	750pF - 3700pF	Y5P	2%	User
		30000	500pF - 2500pF	Y5P	2%	Mounting
		40000	380pF - 1800pF	Y5P	2%	Required
Fabmika® Multi Capacitor Networks Single Section Capacitors	221M 224M 305M	For information on these parts, please refer to the Capacitors and Thermistors Data Book (VSD-DB0063-0208)				