

Ceramic Power Capacitors



Vishay

FEATURES

- Wide Range of Styles
- Choice of Terminations and Mountings
- Low Self Inductance

PRODUCT DESCRIPTION	TYPE	CAPACITANCE RANGE pF	TOLERANCE ± %	RATED VOLTAGE KV _P	RATED POWER KVA _r	RATED CURRENT A _{rms}	
Plate Capacitors with Contoured Rim Class 1 & Class 2 Ceramic	PS 20	5.6-270	5, 10, 20	5.0	5.0-25	5	
	PS 30	CLASS 1	10-560	5, 10, 20	5.0-7.5	10	
	PS 40		22-1000	5, 10, 20	5.0	15	
	PS 55		22-2000	5, 10, 20	5.0	18	
	PS 20	CLASS 2	1000-1500	-20 +40	3.5	0.25	max.5
	PS 30		2200-3300	-20 +40	3.5	0.5	max.10
	PS 40		4700-6800	-20 +40	3.5	1.0	max.15
	PS 55		10000-27000	-20 +40	3.5-4.0	1.0	max.18
Plate Capacitors with Contoured Rim or Flat Rim	P.70	25-800	5, 10, 20	11-14	15-20	10-16	
	P.100	50-1600	5, 10, 20	11-15	30-40	15-35	
	P.140	100-3000	5, 10, 20	12-16	67.5-90	20-45	
	P.200	160-6000	5, 10, 20	12-15	112-150	25-60	
	FPZ 140	50-500	10	27KV-30KV	90	max.35	
	PEZ 140	600-2500	10	15KV-30KV	90	35-45	
	PEF 220	160-10000	10, 20	12-20	110-140	60-100	
	FPE 210	1000-1500	10, 20	30	90-160	max.90	
Barrel Capacitors	TO.016010	1.5-50	5, 10, 20	5.0	3.0-4.0	3.0-5.0	
	TO.025016	2.0-100	5, 10, 20	9.0	5.0-10	5.0-10	
	TOS020016	10-2500	10, 20	7.5	-	-	
	TOS030033	10-1500	10, 20	15	-	-	
	TOSZ114096	1000	20	40	40	30	
Special Barrel Capacitors for Dielectric Heating Equipment	TOSZ080110	25	10	30	up to 550	60	
	TOSZ100110	50	10	30	up to 800	100	
	TOSZ120055	160, 250	10	9.0	up to 862	135	
	TOSZ118078	50,75	10	30	up to 800	150	
	TOSZ118100	100	10	30	up to 900	120	
	TOSW118115	125	10	13.5	1941	203	
Feed-Through Capacitors	DBZ34	1000-2500	20, -20+50	10	-	max.6.0	
	DBZ 012058	200	-10+20	7.5	5	4	
	DGZ 020036	1000	20	5KVDC	5	5	
	D.016030	200-600	5, 10, 20	3.0	4.0	5.0	
	D.016040	500-800	5, 10, 20	3.0	5.0	5.0	
	D.016060	800-2500	5, 10, 20	3.0-4.0	7.5	5.0	
	D.030070	400-800	5, 10, 20	7.0-8.0	16	8.0-10	
	D.030088/090	150-2500	5, 10, 20	7.0-10	20-80	8.0-30	
	D.030100/110	100-1800	5, 10, 20	7.0-12	25-30	8.0-30	
	D.045120	400-4700	5, 10, 20	8-13	25-60	10-50	
	D.045150/155	500-2700	5, 10, 20	14-16	30-56	10-25	
	D.050110/180	1000-3000	10, 20	15-20	up to 200	50-75	
	D.050166/180	500-3000	10, 20	20-30	70-100	50-87	
Feed-Through Capacitors with R16 High Q Ceramic	DB 055135	100	10, 20	20	up to 900	150	
	DBF 050166	125	10	25	up to 550	120	



ADDITIONAL PRODUCT INFORMATION

- Values : 1.5pF - 10,000pF (High Voltage Versions)
6,800pF-510,000pF (Low Voltage Versions)
- Power Ratings up to 4000KVA_r
- Voltage Ratings up to 30KV_p
- Current Ratings up to 350A_{rms}

APPLICATIONS (Typical)

- Inductive Heating Equipment (Op. frequency > 20KHz)
- Dielectric Heating Equipment (Op. frequency > 5 MHz)
- Impedance Tuning Circuits
- RF Filter and Pulse Forming Circuits
- DC Voltage Blocking, RF Voltage Dividers
- Voltage Multipliers (Capacitor stacks)

PRODUCT DESCRIPTION	TYPE	CAPACITANCE RANGE pF	TOLERANCE ± %	RATED VOLTAGE KV _p	RATED POWER KVA _r	RATED CURRENT A _{rms}
Tubular Capacitors with Flat Rim	R.012085	3.0-100	5, 10, 20	2.0	0.7-0.8	4.0
	R.012020	10-400	5, 10, 20	2.0	1.4-1.7	4.0
	R.016040	25-1000	5, 10, 20	3.0	3.5-4.2	5.0
	R.016070	50-1600	5, 10, 20	3.0	5.6-7	5.0
	R.020080	60-2000	5, 10, 20	4.0	8-10.5	6.0
Tubular Capacitors with Contoured Rims	RD030100	100-1500	5, 10, 20	7-8	30	30
	RD045120	200-4700	5, 10, 20	10-11	60	50
Pot Capacitors	T.020030	10-400	5, 10, 20	6-8	3.5-4.2	6.0
	T.020050	20-600	5, 10, 20	7-8	5.6-7	6.0
	T.020080	40-1200	5, 10, 20	7-8	8.5-10.5	7.0
	T.030090	50-1600	5, 10, 20	9-10	14-18	9.0
	T.045090	60-2500	5, 10, 20	9-10	22-28	12
	T.045120	50-1600	5, 10, 20	10-13	28-35	10
	T.045150	60-5000	5, 10, 20	11-14	35-42	12
	T.085120	100-4000	5, 10, 20	10-15	56-70	15
	T.050120	1000-4000	5, 10, 20	6-12	60	20
	T.050200	2000-6000	5, 10, 20	6-12	70	20
Pot Capacitors with R16 High Q Ceramic	TDZ 045124	100, 150	10	18	up to 500	65-115
	TDZ 050124	200, 250	10	18	up to 600	150
	TDFZ 125236	500	10	18	max 2035	max.160
	TDFZ 125236	750	10	18	max 2300	max.180
	TDFZ 125236	1000	10	18	max 2540	max.200
	TDFZ 125260	1500	10	12	max 2000	max.250
	TDFZ 125260	2000	10	12	max. 2450	max.290
Pot Capacitors for Coupling Purposes	TDZ 050170	10000	20	15	12.5	max.20
	TDFZ 060197	10000	20	20	20	max.30
	TDFZ 060215	15000	20	15	30	max.40
	TDFZ 070265	10000	20	20	40	max.40
	TDFZ 170229	2000	10	40	120	max.100
	TDFZ 170311	3000, 4000	10	32	230	120-170

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PRODUCT DESCRIPTION	TYPE	CAPACITANCE RANGE PF	TOLERANCE ± %	RATED VOLTAGE KV _p	RATED POWER KVA _r	RATED CURRENT A _{rms}
Watercooled Power RF-Capacitors External Cooling	TWXF095 162	100-2500	20	14	1000-1500	150
	TWXF095 187	1000	20	14	1500	150
	TWXF135 242	2500	20	25	2500	250
	TWXF135 242	3000	20	20	2000	200
	TWXF135 218	4000	20	16	2500	250
	TWXF095 220	5000	20	12	1275	150
	TWXF110 250	4700-5000	20	14	2000	200
	TWXF135 250	5000	20	16	2830	250
	TWXF135 285	5000	20	20	3000	250
	TWXF135 373	5000	20	25	3200	250
	TWXF135 272	6000	20	16	2830	250
	TWXF165 278	6000	20	20	3000	270
	TWXF165 270	7500	20	14	3000	300
	TWXF125 300	7600	20	14	2500	250
	TWXF165 270	7600	20	16	2830	250
	TWXF125 420	7600	20	18	2500	250
	TWXF165 336	7600	20	20	3200	270
	TWXF165 380	7500	20	22.5	4000	350
	TWXF125 300	10000	20	10	2000	280
	TWXF125 405	10000	20	14	2800	290
TWXF165 335	10000	20	16	3395	300	
TWXF165 420	10000	20	18	2500	250	
Watercooled Power RF-Capacitors Internal Cooling	TWXFZ106266	4000	10	20	3540	250
	TWXFZ106266	5000	10	16	2830	250
	TWXFZ140316	7500	10	22.5	4000	350
	TWXFZ140266	10000	10	14	3000	350
	TWXFZ140376	10000	10	20	4000	350
	TWIF085215	1000	20	14	1500	200
	TWIF085175	2200	20	14	1000	200
	TWIF085260	4700	20	14	1500	200



PRODUCT DESCRIPTION	TYPE	CAPACITANCE RANGE PF	TOLERANCE ± %	RATED VOLTAGE KV _p	RATED POWER KVA _r	RATED CURRENT A _{rms}	
Ring-Styled High Voltage Capacitors	HR 22	750-3000		2.8	-	-	
	HR 30	1500-5000	20,-20+50	2.8-3.5	-	-	
	HR 35	100, 5000		3.5, 2.0	-	-	
Ceramic Stand-off Insulators	3540/6... 354125/6 4040/6 5058/6	Stand-off insulators, cylindrical or contoured, with threaded terminals for RF-Generator equipment.					
High Voltage Capacitors	HPC	350-5000	20	20KVdc or 15KV _{rms} (up to 120KHZ)	-	6.0max	
	HPD	300-4700	20	10KVdc to 40KVdc	-	-	
	10KT...40KT.. 15DK...40DK...	300-10000	-20+ 80	15KVdc to 40KVdc	-	-	
Capacitor Stacks for Voltage Multiplier Circuits <small>Completely Voltage Multiplier sets or Customer designs are available on request</small>		NO. OF INDIVIDUAL DISCS / CAP. VALUES pF		TOLERANCE ±%	RATED VOLTAGE KVp		
	GDMQ 0803...	3x125, 6x125		-20+40	3x8.0 6x8.0		
		GDMQ 0809	7x125, 9x125			7x8.0 9x8.0	
	GDMQ 0704...	4x125, 5x125		-20+40	4x8.0 5x8.0		
		GDMQ 0712	6x125, 9x125			6x8.0 9x8.0	
			10x125, 12x125			10x8.0 12x8.0	
	GDMQ 0803...	3x250, 4x250		-20+40	3x8.0 4x8.0		
		GDMQ 0712	5x250, 6x250			5x8.0 6x8.0	
			9x250, 12x250			9x8.0 12x8.0	
	GDMQ 1005	5x500		-20+40	5x10		
	GF.Q 1010...	8x500, 10x500		20	8x8.0 10x8.0		
		GF.Q 1212	12x500			12x8.0	
			9x250, 12x250				
GFMM2505	5x1300		-10, +60	5x19			
GFMM 2505	5x2200		-10, +50	5x11			
GFMM 2507	7x2200		-10, +50	7x11			
Custom Voltage Multiplier Sets	RHK...	Vishay have the facilities to produce custom style Voltage multiplier sets: <ul style="list-style-type: none"> Built from two or more stacks Completely soldered with diodes and resistors If you have an application with a non-standard requirement, contact us and our design team will work with you to find a solution.					