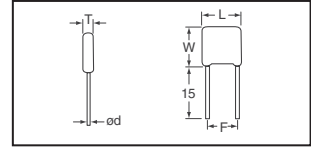




## High Capacitance Dipped Radial Leaded Multilayer Ceramic Capacitors



**Features:** • Small size and large capacitance • High ripple current • Y5U temperature characteristic • Excellent noise absorption • Superior humidity characteristic • Long life • Resin (UL94V-0) used for coating

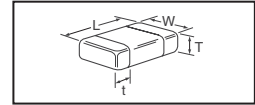
**Applications:** • Automotive equipment • Smoothing circuit of switching mode AC-DC or DC-DC converter • Noise suppressor for various kinds of equipment • By-pass or decoupling circuits

Voltage (VDC)	Capacitance (µF)	Maximum Ripple Current (Arms)	Dimensions mm					Digi-Key Part No.	Price Each			United Chemi-Con Part No.
			L max.	W max.	T max.	F±0.8	øD±0.05		1	10	100	
16	15	0.8	6.5	7.5	4.0	5.0	0.5	565-3260-ND	3.37	3.03	2.29	KHD160E156M43A0B00
	47	1.0	8.0	9.0	4.5	5.0	0.5	565-3261-ND	4.90	4.41	3.33	KHD160E476M55A0B00
	100	1.5	10.0	11.5	4.5	5.0	0.5	565-3262-ND	6.62	5.89	4.71	KHD160E107M76A0B00
	150	2.0	13.5	15.0	5.0	10.0	0.6	565-3263-ND	20.86	19.77	15.92	KHD160E157M80A0B00
	470	3.0	22.5	20.0	6	20.0	0.8	565-3264-ND	53.16	49.84	43.20	KHD160E477M90C0B00
	680	4.0	28.5	20.0	7.5	25.0	0.8	565-3265-ND	51.99	49.10	39.72	KHD160E687M99C0B00
25	4.7	0.3	5.0	6.5	3.5	5.0	0.5	565-3266-ND	2.05	1.60	1.27	KHD250E475M32A0B00
	10	0.8	6.5	7.0	3.5	5.0	0.5	565-3267-ND	2.47	1.93	1.53	KHD250E106M43A0B00
	15	0.8	6.5	7.0	4.0	5.0	0.5	565-3268-ND	2.78	2.17	1.72	KHD250E156M43A0B00
	22	1.0	7.5	9.0	4.0	5.0	0.5	565-3269-ND	3.61	2.92	2.28	KHD250E226M55A0B00
	47	1.5	10.0	11.5	4.5	5.0	0.5	565-3270-ND	4.28	3.85	2.91	KHD250E476M76A0B00
	100	2.0	13.5	15.0	5.5	10.0	0.6	565-3271-ND	10.85	10.32	8.15	KHD250E107M80A0B00
50	150	3.0	22.5	20.0	6.0	20.0	0.8	565-3272-ND	19.06	18.06	14.55	KHD250E157M90C0B00
	470	4.0	28.5	20.0	7.5	25.0	0.8	565-3273-ND	31.19	29.45	23.82	KHD250E477M99C0B00
	10	1.0	7.5	9.0	4.0	5.0	0.5	565-3274-ND	2.92	2.36	1.84	KHD500E106M55A0B00
	15	1.0	7.5	9.0	4.5	5.0	0.5	565-3275-ND	3.40	2.75	2.15	KHD500E156M55A0B00
	47	3.0	22.5	20.0	6.0	20.0	0.8	565-3276-ND	15.73	14.95	11.80	KHD500E476M90C0B00
	100	3.0	22.5	20.0	6.0	20.0	0.8	565-3277-ND	18.31	17.36	13.98	KHD500E107M90C0B00
100	150	4.0	28.5	20.0	7.5	25.0	0.8	565-3278-ND	25.25	23.93	19.28	KHD500E157M99C0B00
	220	4.0	28.5	20.0	7.5	25.0	0.8	565-3279-ND	28.30	26.81	21.60	KHD500E227M99C0B00
	0.47	0.3	5.0	6.5	3.0	5.0	0.5	565-3280-ND	1.74	1.36	1.08	KHD101E474M32A0B00
	1.0	0.8	6.5	7.0	3.5	5.0	0.5	565-3281-ND	1.91	1.49	1.18	KHD101E105M43A0B00
	1.5	0.8	6.5	7.0	3.5	5.0	0.5	565-3282-ND	1.99	1.56	1.24	KHD101E155M43A0B00
	4.7	1.0	7.5	9.0	4.5	5.0	0.5	565-3283-ND	2.84	2.30	1.79	KHD101E475M55A0B00
250	10	2.0	13.5	15.0	5.0	10.0	0.6	565-3284-ND	6.93	6.17	4.94	KHD101E106M80A0B00
	15	2.0	13.5	15.0	5.0	10.0	0.6	565-3285-ND	7.67	6.83	5.46	KHD101E156M80A0B00
	47	4.0	28.5	20.0	7.5	25.0	0.8	565-3286-ND	21.08	19.97	16.09	KHD101E476M99C0B00
	100	4.0	28.5	20.0	7.5	25.0	0.8	565-3287-ND	28.81	27.29	21.99	KHD101E107M99C0B00
	0.10	0.8	6.5	7.0	3.5	5.0	0.5	565-3288-ND	1.83	1.43	1.13	KHD251E104M43A0B00
	0.15	0.8	6.5	7.0	3.5	5.0	0.5	565-3289-ND	1.85	1.45	1.15	KHD251E154M43A0B00
250	0.47	1.0	7.5	9.0	4.0	5.0	0.5	565-3290-ND	2.47	1.93	1.53	KHD251E474M55A0B00
	1.0	1.5	10.0	11.5	4.5	5.0	0.5	565-3291-ND	3.05	2.46	1.92	KHD251E105M76A0B00
	1.5	1.5	10.0	11.5	4.5	5.0	0.5	565-3292-ND	3.38	2.73	2.13	KHD251E155M76A0B00
	4.7	3.0	22.5	20.0	6.0	20.0	0.8	565-3293-ND	11.33	10.77	8.51	KHD251E475M90C0B00
	10	4.0	28.5	20.0	7.5	25.0	0.8	565-3294-ND	18.77	17.79	14.33	KHD251E106M99C0B00
	15	4.0	28.5	20.0	7.5	25.0	0.8	565-3295-ND	21.30	20.18	16.26	KHD251E156M99C0B00

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## Multilayer Ceramic Chip Capacitors - Prohibits Surface Arc-over in High Voltage Applications - VJ HV Arc Guard™ Series

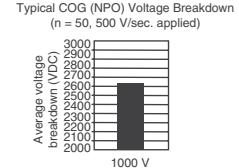
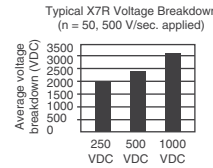


**Features:** • Protects against surface arc-over • Higher capacitance and smaller case size that save board space • Voltage breakdowns are twice that of some competitor products • Excellent reliability and high voltage performance

**Applications:** • DC-to-DC converters (Buck and Boost) • Voltage multipliers for flyback converters • Lighting ballast circuits • Power supplies

**Electrical Specifications:** • Temperature Coefficient of Capacitance: • X7R: ±15% from -55°C - 125°C, with 0 Vdc applied • COG (NPO): 0 ±30ppm/°C from -55°C - 125°C

Size Code	Dimensions - mm			
	L	W	T	t
0805	2.00 ±0.20	1.25 ±0.020	1.45	0.25 - 0.71
1206	3.20 ±0.20	1.60 ±0.20	1.86	0.25 - 0.76
1210	3.20 ±0.20	2.50 ±0.20	1.86	0.25 - 0.76
1808	4.50 ±0.25	2.03 ±0.25	1.86	0.25 - 0.76
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 - 0.76



Size Code	Type	VV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
0805	COG (NPO)	1,000V	10pF	±5%	720-1070-1-ND	.68	5.66	35.46	720-1070-2-ND	3,000	135.09/M	VJ0805A100JXGAT5Z
	COG (NPO)	1,000V	22pF	±5%	720-1072-1-ND	.68	5.66	35.46	720-1072-2-ND	3,000	135.09/M	VJ0805A220JXGAT5Z
	COG (NPO)	1,000V	47pF	±5%	720-1074-1-ND	.68	5.66	35.46	720-1074-2-ND	3,000	135.09/M	VJ0805A470JXGAT5Z
	COG (NPO)	1,000V	100pF	±5%	720-1071-1-ND	.68	5.66	35.46	720-1071-2-ND	3,000	135.09/M	VJ0805A101JXGAT5Z
	COG (NPO)	1,000V	220pF	±5%	720-1073-1-ND	.74	6.22	39.00	720-1073-2-ND	3,000	148.57/M	VJ0805A221JXGAT5Z
	1206	COG (NPO)	1,000V	10pF	±5%	720-1010-1-ND	.75	6.39	43.42	720-1010-2-ND	2,500	180.92/M
COG (NPO)		1,000V	22pF	±5%	720-1013-1-ND	.75	6.39	43.42	720-1013-2-ND	2,500	180.92/M	VJ1206A220JXGAT5Z
COG (NPO)		1,000V	47pF	±5%	720-1015-1-ND	.75	6.39	43.42	720-1015-2-ND	2,500	180.92/M	VJ1206A470JXGAT5Z
COG (NPO)		1,000V	100pF	±5%	720-1011-1-ND	.75	6.39	43.42	720-1011-2-ND	2,500	180.92/M	VJ1206A101JXGAT5Z
COG (NPO)		1,000V	220pF	±5%	720-1014-1-ND	.83	7.03	47.77	720-1014-2-ND	2,500	199.01/M	VJ1206A221JXGAT5Z
COG (NPO)		1,000V	470pF	±5%	720-1016-1-ND	.83	7.03	47.77	720-1016-2-ND	2,500	199.01/M	VJ1206A471JXGAT5Z
COG (NPO)		1,000V	1,000pF	±5%	720-1012-1-ND	.87	7.35	49.93	720-1012-2-ND	2,500	208.06/M	VJ1206A102JXGAT5Z
X7R		500V	100pF	±10%	720-1017-1-ND	.82	6.86	43.06	720-1017-2-ND	2,500	164.04/M	VJ1206Y101KXGAT5Z
X7R		500V	220pF	±10%	720-1023-1-ND	.82	6.86	43.06	720-1023-2-ND	2,500	164.04/M	VJ1206Y221KXGAT5Z
X7R		500V	470pF	±10%	720-1029-1-ND	.82	6.86	43.06	720-1029-2-ND	2,500	164.04/M	VJ1206Y471KXGAT5Z
X7R		500V	1,000pF	±10%	720-1019-1-ND	.74	6.21	38.93	720-1019-2-ND	2,500	148.30/M	VJ1206Y102KXGAT5Z
X7R		500V	2,200pF	±10%	720-1025-1-ND	.79	6.65	41.67	720-1025-2-ND	2,500	158.75/M	VJ1206Y222KXGAT5Z
X7R		500V	4,700pF	±10%	720-1031-1-ND	.69	5.78	39.29	720-1031-2-ND	2,500	163.70/M	VJ1206Y472KXGAT5Z
X7R		500V	0.01µF	±10%	720-1021-1-ND	.69	5.78	39.29	720-1021-2-ND	2,500	163.70/M	VJ1206Y103KXGAT5Z
X7R		500V	0.022µF	±10%	720-1027-1-ND	.74	6.25	42.24	720-1027-2-ND	2,500	176.83/M	VJ1206Y223KXGAT5Z
X7R		500V	0.047µF	±10%	720-1033-1-ND	.89	7.57	51.42	720-1033-2-ND	2,500	214.26/M	VJ1206Y473KXGAT5Z
X7R		1,000V	100pF	±10%	720-1018-1-ND	.87	7.23	53.07	720-1018-2-ND	2,500	223.04/M	VJ1206Y101KXGAT5Z
X7R		1,000V	220pF	±10%	720-1024-1-ND	.87	7.23	53.07	720-1024-2-ND	2,500	223.04/M	VJ1206Y221KXGAT5Z
X7R		1,000V	470pF	±10%	720-1030-1-ND	.75	6.39	43.42	720-1030-2-ND	2,500	180.92/M	VJ1206Y471KXGAT5Z
X7R		1,000V	1,000pF	±10%	720-1020-1-ND	.84	7.02	44.03	720-1020-2-ND	3,000	167.73/M	VJ1206Y102KXGAT5Z
X7R		1,000V	2,200pF	±10%	720-1026-1-ND	.71	6.05	41.07	720-1026-2-ND	3,000	171.13/M	VJ1206Y222KXGAT5Z
X7R		1,000V	4,700pF	±10%	720-1032-1-ND	.71	6.05	41.07	720-1032-2-ND	3,000	171.13/M	VJ1206Y472KXGAT5Z
X7R		1,000V	0.01µF	±10%	720-1022-1-ND	.92	7.69	56.46	720-1022-2-ND	3,000	237.30/M	VJ1206Y103KXGAT5Z
X7R		1,000V	0.022µF	±10%	720-1028-1-ND	.99	8.31	60.99	720-1028-2-ND	2,500	256.34/M	VJ1206Y223KXGAT5Z

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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