



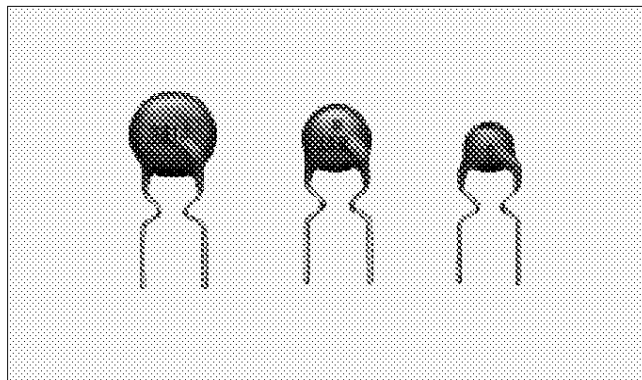
# CERAMIC CAPACITORS



## 50V Ceramic Capacitors DD100 Series

### FEATURES

1. High reliability and low cost.
2. Little residual inductance. Can be used in the high frequencies.
3. Temperature compensating type with high Q and stable against temperature changes.
4. 50V-capacitors are designed to be suitable for 63V-applications.



### DIMENSIONS

Packaging form	Bulk	Taping*2
Configuration	Inside Crimp	Inside Crimp
Lead code	-63	-989, -999, -959
Dimensions (in mm)		

\*1 4.0 max. in the case of temperature compensating type of 22pF and under, and high dielectric constant type of 470pF and under.

\*2 Please see page 16 on other taping specification.

### MARKING

Item	Type	Temperature Compensating Type		High Dielectric Constant Type	
	Temp. Char.	CK, CJ, CH	SL	B	F
DD104-DD106					
DD107 & DD108					
DD109-DD112					
Temperature Characteristics		Identified by color (Black).	Omitted.	Identified by code.	Omitted.
Nominal Capacitance		Under 100pF : Actual value. 100pF and over : Identified by 3-figure code.			
Capacitance Tolerance		Identified by code. Omitted for Nom. Dia. φ6mm and under except F103Z.			
Rated Voltage		Identified by horizontal line under capacitance.			
Manufacturer's Identification		Identified by . Omitted for Nom. Dia. φ8mm and under except F223Z.			
Manufactured Date		Abbreviation. Omitted for Nom. Dia. φ8mm and under except F223Z.			



■STANDARD LIST

Temperature Compensating Type	DD100 Series
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CK Characteristics (0±250ppm/°C)



CJ Characteristics (0±120ppm/°C)

CH Characteristics (0± 60ppm/°C)

Nominal Capacitance (pF)	Body Dia. D (mm max.)	Capacitance Tolerance	DC Rated Voltage (V)	Part Number (□ : means optional lead code shown on the right.)	Lead Code	
					Bulk	Taping
					Inside Crimp 	Crimp 
1	4	±0.25pF	50	DD104 □ CK 010 C 50	-63	
1.5				DD104 □ CK 1R5 C 50		
2				DD104 □ CK 020 C 50		
3				DD104 □ CJ 030 C 50		
4				DD104 □ CH 040 C 50		
5				DD104 □ CH 050 C 50		
6		DD104 □ CH 060 D 50		-989		
7		DD104 □ CH 070 D 50				
8		DD104 □ CH 080 D 50				
9		DD104 □ CH 090 D 50				
10		DD104 □ CH 100 D 50				
12		DD104 □ CH 120 J 50				
15		DD104 □ CH 150 J 50				
18		DD104 □ CH 180 J 50				
22		DD104 □ CH 220 J 50				
27		DD104 □ CH 270 J 50				
33		DD104 □ CH 330 J 50		-959		
39		DD104 □ CH 390 J 50				
47		DD104 □ CH 470 J 50				
56		5				
68	6	DD106 □ CH 680 J 50				
82		DD106 □ CH 820 J 50				
100	7.5	DD107 □ CH 101 J 50				
120		DD107 □ CH 121 J 50				
150	8	DD108 □ CH 151 J 50				
180	9.5	DD109 □ CH 181 J 50				
220		DD109 □ CH 221 J 50				
270		10.5	DD110 □ CH 271 J 50			





Temperature Compensating Type	DD100 Series
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SL Characteristics (+350 to -1000ppm/°C)



Nominal Capacitance (pF)	Body Dia. D (mm max.)	Capacitance Tolerance	DC Rated Voltage (V)	Part Number (□: means optional lead code shown on the right.)	Lead Code			
					Bulk	Taping		
					Inside Crimp	Crimp		
1	4	±0.25pF	50	DD104 □ SL 010 C 50				
1.5				DD104 □ SL 1R5 C 50				
2				DD104 □ SL 020 C 50				
3				DD104 □ SL 030 C 50				
4				DD104 □ SL 040 C 50				
5		DD104 □ SL 050 C 50						
6		±0.5pF		DD104 □ SL 060 D 50				
7				DD104 □ SL 070 D 50				
8				DD104 □ SL 080 D 50				
9				DD104 □ SL 090 D 50				
10				DD104 □ SL 100 D 50				
12		±5%		DD104 □ SL 120 J 50			-63	
15				DD104 □ SL 150 J 50				
18				DD104 □ SL 180 J 50				
22				DD104 □ SL 220 J 50				
27				DD104 □ SL 270 J 50				
33				DD104 □ SL 330 J 50				
39				DD104 □ SL 390 J 50				
47				DD104 □ SL 470 J 50				
56				DD104 □ SL 560 J 50				
68	DD104 □ SL 680 J 50							
82	DD104 □ SL 820 J 50							
100	DD104 □ SL 101 J 50							
120	DD104 □ SL 121 J 50							
150	DD105 □ SL 151 J 50							
180	DD106 □ SL 181 J 50		-999					
220	DD106 □ SL 221 J 50							
270	DD107 □ SL 271 J 50	-959						
330	DD107 □ SL 331 J 50							
390	DD107 □ SL 391 J 50							
470	DD108 □ SL 471 J 50							
560	DD109 □ SL 561 J 50							
680	DD110 □ SL 681 J 50							
820	DD110 □ SL 821 J 50							
1000	DD112 □ SL 102 J 50		—					

High Dielectric Constant Type	DD100 Series
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B Characteristics (±10%)

Nominal Capacitance (pF)	Body Dia. D (mm max.)	Capacitance Tolerance (%)	DC Rated Voltage (V)	Part Number (□ : means optional lead code shown on the right.)	Lead Code					
					Bulk	Taping				
					Inside Crimp	Crimp				
100	4	±10	50	DD104 □ B 101 K 50						
120				DD104 □ B 121 K 50						
150				DD104 □ B 151 K 50						
180				DD104 □ B 181 K 50						
220				DD104 □ B 221 K 50						
270				DD104 □ B 271 K 50						
330				DD104 □ B 331 K 50						
390				DD104 □ B 391 K 50						
470				DD104 □ B 471 K 50						
560				DD104 □ B 561 K 50						
680				DD104 □ B 681 K 50						
820				DD104 □ B 821 K 50						
1000				DD104 □ B 102 K 50						
1200				DD104 □ B 122 K 50						
1500				DD104 □ B 152 K 50						
1800	5	±10	50	DD105 □ B 182 K 50						
2200	6			DD106 □ B 222 K 50			-63	-989		
2700				DD106 □ B 272 K 50						
3300	7.5			DD107 □ B 332 K 50					-959	
3900				DD107 □ B 392 K 50						
4700				DD107 □ B 472 K 50						
5600	8			DD108 □ B 562 K 50						-959
6800	9.5			DD109 □ B 682 K 50						
8200	10.5			DD110 □ B 822 K 50						
10000	11			DD111 □ B 103 K 50						

F Characteristics (±30%)

Nominal Capacitance (pF)	Body Dia. D (mm max.)	Capacitance Tolerance (%)	DC Rated Voltage (V)	Part Number (□ : means optional lead code shown on the right.)	Lead Code				
					Bulk	Taping			
					Inside Crimp	Crimp			
2200	4	+80 -20	50	DD104 □ F 222 Z 50					
4700				DD104 □ F 472 Z 50			-63	-989	
6800	5			DD105 □ F 682 Z 50					
10000	6			DD106 □ F 103 Z 50					-999
22000	8			DD108 □ F 223 Z 50					
47000	10.5			DD110 □ F 473 Z 50					