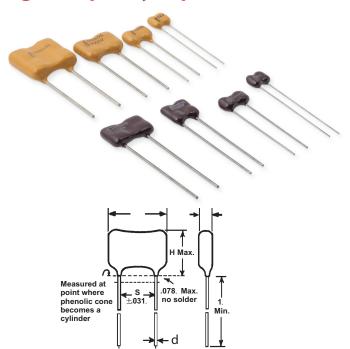
Types CD17, CD18 & CDV18, High-Frequency, Mica Capacitors

High-Frequency Capacitors for CATV and RF Applications



Types CD17 and CD18 assure controlled, resonance-free performance through 1 GHz. Insertion loss data is typically flat within ± 0.1 dB over the entire frequency range, and is specified to be flat within ± 0.2 dB. Interchangeable with the most popular, common mica capacitors, Type CD17 is available in the same case sizes and lead spacing as CD15; CD18, in the same case sizes and lead spacing as CD19, and CDV18, in the same as CDV19.

Highlights

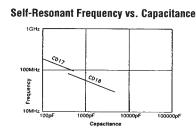
- · Shockproof and delamination free
- Near zero capacitance change with (t), (V) and (f)
- Very high Q at UHF/VHF frequencies
- 0.0005 typical dissipation factor
- 100,000 V/µs dV/dt capability minimum
- Low, notch-free impedance to beyond 1 GHz
- Ultra low ESR for cool operation

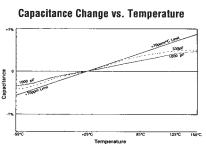
Click here to see ordering infomation

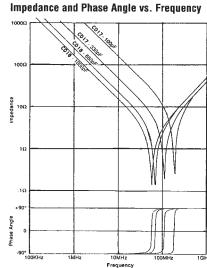
Specifications

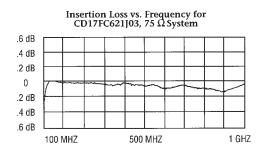
<u>-</u>							
Capacitance Range	1 pF to 5,100 pF						
Capacitance Tolerance	±1/2 pF (D), ±1 pF (C), ±1/2% (E), ±1% (F), ±2% (G), ±5% (J)						
Rated Voltage	100 Vdc to 1,000 Vdc						
Operating Temperature Range	-55 °C to +150 °C						
Regulatory Information							

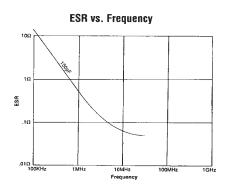
Typical Perfomance Curves











Types CD17, CD18 & CDV18, High-Frequency, Mica Capacitors Ratings

Cap.	Catalog	Volt	1	н	т	S	d	Cap.	Catalog	Volt	L	Н	т	S	d
(pF)	Part Number	Rate	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	(pF)	Part Number	Rate	in (mm)	in (mm)	in (mm)	_	in (mm)
1	CD17CD010DO3F	500	.450 (11.4)	, ,		_ ,	.025 (.6)	270	CD17FD271JO3F	500	.470 (11.9)	.390 (9.9)	.210 (5.3)		.025 (.6)
2	CD17CD020D03F		.450 (11.4)	, ,	, ,	` '	.025 (.6)	270	CD18FD271JO3F	500	.640 (16.3)	.500 (3.3)	` '	, ,	.032 (.8)
3	CD17CD030DO3F		` '	, ,	, ,	, ,	.025 (.6)	270	CDV18FF271JO3F		.640 (16.3)	.500 (12.7)	, ,	, ,	.032 (.8)
4	CD17CD030DO3F		.450 (11.4)	, ,	, ,	, ,	.025 (.6)	300	CD17FD301JO3F	500	.470 (11.9)	.390 (12.7)	, ,	, ,	.032 (.6)
5	CD17CD050DO3F		.450 (11.4)	` '	, ,	` '	.025 (.6)	300	CD18FD301JO3F	500	.640 (16.3)	.500 (3.3)	` '	, ,	.032 (.8)
6	CD17CD060DO3F	500	.450 (11.4)	_ ,			.025 (.6)	300	CDV18FF301JO3F		.650 (16.5)	.510 (13.0)			.032 (.8)
7	CD17CD070DO3F		.450 (11.4)	, ,	, ,	` '	.025 (.6)	330	CD17FD331JO3F	500	.470 (11.9)	.390 (9.9)	, ,	, ,	.032 (.6)
8	CD17CD080D03F		.450 (11.4)	, ,	, ,	` '	.025 (.6)	330	CD17FD331JO3F CD18FD331JO3F	500	.640 (16.3)	.500 (9.9)	, ,	, ,	.023 (.8)
9	CD17CD090DO3F		.450 (11.4)	` '	, ,	` '	.025 (.6)	330	CDV18FF331JO3F		, ,	.510 (13.0)	, ,	, ,	.032 (.8)
10	CD17CD100JO3F		.450 (11.4)				.025 (.6)	360	CD17FD361JO3F	500	.470 (11.9)	.390 (9.9)	. ,		.032 (.6)
12	CD17CD120JO3F		.450 (11.4)	. ,			.025 (.6)	360	CD18FD361JO3F	500	.640 (16.3)	.510 (13.0)			.023 (.0)
15	CD17CD150JO3F		.450 (11.4)	, ,	, ,	, ,	.025 (.6)	360	CDV18FF361JO3F		, ,	.510 (13.0)	, ,	, ,	.032 (.8)
18	CD17CD180JO3F		.450 (11.4)	, ,	, ,	, ,	.025 (.6)	390	CD17FD391JO3F	500	.470 (11.9)	, ,	, ,	, ,	.025 (.6)
20	CD17ED200JO3F		.450 (11.4)		, ,		.025 (.6)	390	CD18FD391JO3F	500	` ,	.510 (13.0)	` '	, ,	.032 (.8)
22	CD17ED220JO3F		.450 (11.4)	` '	, ,	` '	.025 (.6)	390	CDV18FF391JO3F		, ,	.510 (13.0)	` '	, ,	.032 (.8)
24	CD17ED220303F	500	.450 (11.4)		_ ` /		.025 (.6)	430	CD17FD431JO3F	500	.470 (11.9)	.400 (10.2)			.032 (.6)
27	CD17ED270JO3F		.450 (11.4)	` '	, ,	` '	.025 (.6)	430	CD18FD431JO3F	500	` ,	.510 (13.0)	` '	, ,	.032 (.8)
27	CDV18EF270JO3F		` '	` '	, ,	` '	.023 (.8)	430	CDV18FF431JO3F		, ,	.510 (13.0)	, ,	, ,	.032 (.8)
30	CD17ED300JO3F		.450 (11.4)	, ,	, ,	, ,	.032 (.6)	470	CD17FD471JO3F	500	, ,	.400 (10.2)	, ,	, ,	.032 (.6)
30	CDV18EF300JO3F		, ,	, ,	, ,	` '	.023 (.0)	470	CD18FD471JO3F	500	, ,	.510 (13.0)	, ,	, ,	.032 (.8)
33	CD17ED330JO3F		.450 (11.4)				.032 (.6)	470	CDV18FF471JO3F		.650 (16.5)	.510 (13.0)			.032 (.8)
33	CDV18EF330JO3F		,	, ,	, ,	, ,	.023 (.8)	500	CD17FD501JO3F	500	, ,	.400 (10.2)	` '	, ,	.032 (.6)
36	CD17ED360JO3F		.450 (10.3)	, ,	, ,	` '	.032 (.6)	500	CD18FD501JO3F	500	, ,	.510 (13.0)	, ,	, ,	.023 (.0)
36	CDV18EF360JO3F		, ,	, ,	, ,	` '	.023 (.8)	510	CD17FD511JO3F	500	,	.400 (10.2)	, ,	, ,	.032 (.6)
39	CD17ED390JO3F		.450 (10.3)	, ,	, ,	` '	.032 (.6)	510	CD18FD511JO3F	500	, ,	.510 (13.0)	, ,	, ,	.023 (.0)
39	CDV18EF390JO3F		. ,	. ,	. ,		.023 (.0)	510	CDV18FF511J03F	1000	.650 (16.5)	.510 (13.0)			.032 (.8)
43	CD17ED430JO3F		, ,	, ,	, ,	, ,	.032 (.6)	560	CD17FC561JO3F	300	.460 (11.7)	.380 (9.7)	, ,	, ,	.032 (.6)
43	CDV18EF430JO3F		, ,	, ,	, ,	` '	.023 (.0)	560	CD18FD561JO3F	500	, ,	.510 (13.0)	, ,	, ,	.032 (.8)
47	CD17ED470JO3F						.032 (.6)	560	CDV18FF561JO3F			.510 (13.0)			.032 (.8)
47	CDV18EF470JO3F		` '	` '	, ,	` '	.023 (.0)	620	CD17FC621JO3F	300	.460 (11.7)	.380 (9.7)	` '	, ,	.032 (.6)
50	CD17ED500JO3F		.450 (11.4)				.032 (.6)	620	CD18FD621JO3F	500	.650 (16.5)	.510 (13.0)			.032 (.8)
50	CDV18EF500JO3F		, ,	, ,	, ,	` '	.023 (.0)	620	CDV18FF621JO3F		.660 (16.8)	.520 (13.0)	, ,	, ,	.032 (.8)
51	CD17ED510JO3F		,	, ,	, ,	` '	.032 (.6)	680	CD17FC681JO3F	300	.470 (11.9)				.032 (.6)
51	CDV18EF510JO3F		, ,	, ,	, ,	` '	.023 (.8)	680	CD18FD681JO3F	500	, ,	.510 (13.0)	, ,	, ,	.032 (.8)
56	CD17ED560JO3F		.450 (11.4)	` ′	, ,	` '	.032 (.6)	680	CDV18FF681JO3F	1000	.660 (16.8)	.520 (13.2)	, ,	, ,	.032 (.8)
56	CDV18EF560JO3F				_ ` /		.032 (.8)	750	CD17FC751JO3F	300	.470 (11.9)	.390 (9.9)			.025 (.6)
62	CD17ED620JO3F		.450 (11.4)	` ′	, ,	` '	.025 (.6)	750	CD18FD751JO3F	500	.650 (16.5)	.510 (13.0)	, ,	, ,	.032 (.8)
1	CDV18EF620JO3F						.032 (.8)	750	CDV18FF751JO3F	1000	.660 (16.8)	.530 (13.5)	, ,	, ,	.032 (.8)
68	CD17ED680JO3F		.450 (11.4)	, ,	, ,	` '	.025 (.6)	820	CD17FC821JO3F	300	.470 (11.9)	.390 (9.9)	, ,	, ,	.025 (.6)
68	CDV18EF680JO3F		, ,	, ,	, ,	` '	.032 (.8)	820	CD18FD821JO3F	500	.650 (16.5)	.510 (13.0)	, ,	, ,	.032 (.8)
75	CD17ED750JO3F		.450 (11.4)				.025 (.6)	820	CDV18FF821JO3F	1000	.660 (16.8)	.530 (13.5)			.032 (.8)
	CDV18EF750JO3F		, ,	, ,	, ,	` '	.032 (.8)	910	CD17FA911JO3F	100	.470 (11.9)	, ,	, ,	, ,	.025 (.6)
82	CD17ED820JO3F		` ,	` ′	, ,	` '	.025 (.6)		CD18FD911JO3F	500	, ,	.510 (13.0)	` '	, ,	` ′
82	CDV18EF820JO3F		. ,		. ,	, ,	.032 (.8)		CD17FA102JO3F	100		.400 (10.2)	. ,		
91	CD17FD910JO3F						.025 (.6)		CD18FD102JO3F	500		.520 (13.2)			, ,
_	CDV18FF910JO3F						.032 (.8)		CD17FA112JO3F	100	.490 (12.4)	.420 (10.7)			.025 (.6)
1	CD17FD101JO3F		,	, ,	, ,	` '	.025 (.6)	- 1	CD18FD112JO3F	500	, ,	.520 (13.2)	, ,	, ,	` ′
	CDV18FF101JO3F						.032 (.8)		CD17FA122JO3F	100		.420 (10.7)			` '
110	CD17FD111JO3F						.025 (.6)		CD18FD122JO3F	500		.520 (13.2)			, ,
1	CDV18FF111JO3F						.032 (.8)	- 1	CD18FD132JO3F	500	, ,	.520 (13.2)			
120	CD17FD121JO3F		.460 (11.7)				.025 (.6)		CD17FA152JO3F	100		.430 (10.9)			
	CDV18FF121JO3F						.023 (.0)		CD18FD152JO3F	500		.520 (13.2)			
	CD17FD131JO3F						.025 (.6)		CD18FD162JO3F	500		.530 (13.5)			, ,
1	CDV18FF131JO3F						.032 (.8)	- 1	CD18FD182JO3F	500		.530 (13.5)	. ,		
1	CD17FD151JO3F						.025 (.6)		CD18FD202JO3F	500	, ,	.530 (13.5)	, ,	, ,	` ′
	CDV18FF151JO3F						. ,	_	CD18FD222JO3F	500		.530 (13.5)			, ,
160	CD17FD161JO3F								CD18FD242JO3F	500		.540 (13.7)			` '
1	CDV18FF161JO3F						.032 (.8)	- 1	CD18FD252JO3F	500		.540 (13.7)			` '
1	CD17FD181JO3F						.025 (.6)		CD18FD272JO3F	500		.540 (13.7)	. ,		
1	CDV18FF181JO3F		. ,		. ,	, ,	.032 (.8)		CD18FD302JO3F	500	, ,	.550 (14.0)			, ,
_	CD17FD201JO3F						.025 (.6)	-	CD18FD332JO3F	500		.550 (14.0)			
1	CDV18FF201JO3F						.032 (.8)	- 1	CD18FD362JO3F	500		.560 (14.2)			` '
1	CD17FD221JO3F		. ,		. ,	, ,	` ′		CD18FD392JO3F	500		.560 (14.2)	. ,		
1	CDV18FF221JO3F						.023 (.8)		CD18FD432JO3F	500		.570 (14.5)			, ,
1	CD17FD241JO3F						` ,		CD18FD472JO3F	500		.580 (14.7)			` '
	CDV18FF241JO3F						.023 (.8)		CD18FD502JO3F	300	• •	.590 (15.0)			
	CD17FD251JO3F								CD18FD512JO3F	300	, ,	.590 (15.0)	, ,	, ,	` ′
	2222010001		5 (11.0)	.300 (0.0)	(0.0)	0. (0.0)	.020 (.0)	100				.500 (10.0)	.5.0 (0.1)	(0.1)	.002 (.0)

Types CD17, CD18 & CDV18, High-Frequency, Mica Capacitors

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