imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Type CD4 High-Frequency, Mica Capacitors

Ultra-High-Frequency Capacitor for CATV and RF Applications 0.1" Lead Spacing



Nearly the textbook ideal capacitor for high-frequency applications, Type CD4 is rock stable over its full temperature and voltage range. Higher self-resonant frequency and lower equivalent series inductance makes CD4 even better than CD17 and CD18 for high-frequency applications. 0.1" lead spacing means CD4 can replace ceramic capacitors on printed circuit boards.

Highlignts

- Higher self-resonant frequency and lower equivalent series inductance than CD17 and CD18
- Low impedance to beyond 1 GHz
- Replaces other 0.1" lead-spacing capacitors
- Cool operation—Typical Qs > 2000
- Shockproof and delamination free
- Near zero capacitance change with frequency and temperature
- 100,000 V/µs dV/dt capability minimum
- Zero capacitance change with voltage

Voltage Range:

Specifications-

MEASURED AT POINT WHERE PHENOLIC CONE BECOMES A CYLINDER

 Capacitance Range:
 1 pF to 1,500 pF

 Capacitance Tolerance:
 ±½ pF (D), ±1 pF (C),±1/2% (E)±1% (F),±1% (F),±2% (G), ±5% (J)

 Temperature Range:
 -55 °C to +125 °C

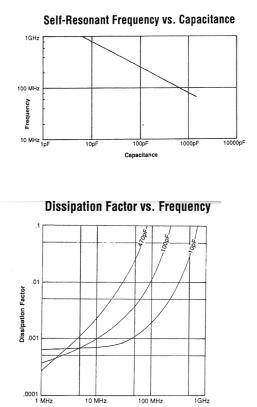
100 Vdc to 500 Vdc

For RoHS compliant add the letter F at the end of the part number.

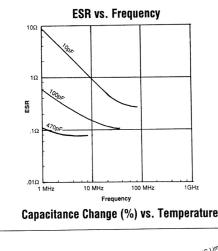
	Catalog	L	н	т	S	d		Catalog	L	н	т	S	d
(pF)		In (mm)	In (mm)	In (mm)	In (mm)	In (mm)	(pF)	Part Number	In (mm)	In (mm)	In (mm)	In (mm)	In (mm)
			100 Vdc				39		.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
910	CD4FA911J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	43	CD4ED430J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
1000	CD4FA102J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	47	CD4ED470J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
1100	CD4FA112J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	50	CD4ED500J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
1200	CD4FA122J03	.340 (8.6)	.310 (7.9)	.170 (4.3)	.100 (2.5)	.020 (.5)	51	CD4ED510J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
1500	CD4FA152J03	.340 (8.6)	.310 (7.9)	.180 (4.6)	.100 (2.5)	.020 (.5)	56	CD4ED560J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
			300 Vdc				62	CD4ED620J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
560	CD4FC561J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	68	CD4ED680J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
620	CD4FC621J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	75	CD4ED750J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
680	CD4FC681J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	82	CD4ED820J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
750	CD4FC751J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	91	CD4FD910J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
820	CD4FC821J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	100	CD4FD101J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
			500 Vdc				110	CD4FD111J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
1	CD4CD010D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	120	CD4FD121J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
2	CD4CD020D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	130	CD4FD131J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
3	CD4CD030D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	150	CD4FD151J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
4	CD4CD040D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	160	CD4FD161J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
5	CD4CD050D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	180	CD4FD181J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
6	CD4CD060D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	200	CD4FD201J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
7	CD4CD070D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	220	CD4FD221J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
8	CD4CD080D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	240	CD4FD241J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
10	CD4CD100J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	250	CD4FD251J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
12	CD4CD120J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	270	CD4FD271J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
15	CD4CD150J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	300	CD4FD301J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
18	CD4CD180J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	330	CD4FD331J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
20	CD4ED200J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	360	CD4FD361J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
22	CD4ED220J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	390	CD4FD391J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
24	CD4ED240J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	430	CD4FD431J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
27	CD4ED270J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	470	CD4FD471J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
30	CD4ED300J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	500	CD4FD501J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
33	CD4ED330J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	510	CD4FD511J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
36	CD4ED360J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)							

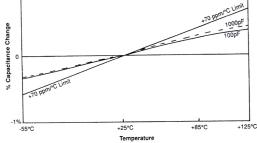
CDE Cornell Dubilier•1605 E. Rodney French Blvd.•New Bedford, MA 02744•Ph: (508)996-8561•Fax: (508)996-3830• www.cde.com

Type CD4 High-Frequency, Mica Capacitors Typical Performance Curves



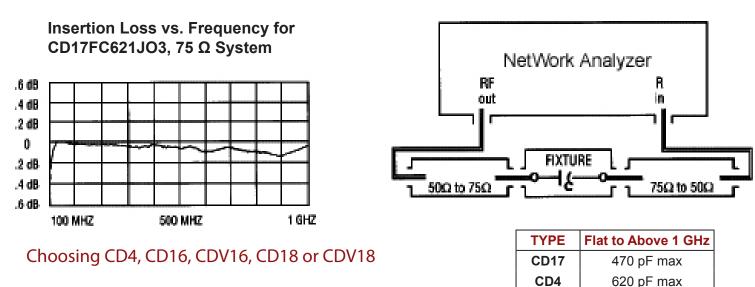
Frequency





Insertion Loss

Over the frequency range of 100 MHz to 1 GHz the insertion loss in a balanced 50 Ω or 75 Ω system is flat ±0.2 dB. A typical test setup is below.



+19

While insertion loss is flat within \pm .2dB through 1 GHz, you may be able to avoid the small notch by changing the capacitor type to fit your capacitance. See table at right.

angingCDV16870 pFtable atCD18660 pF maxCDV181000 pF max

CD16

870 pF

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Type CD4 High-Frequency, Mica Capacitors

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