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

Specifications-

Voltage Range: 100 Vdc to 500 Vdc **Capacitance Range:** 1 pF to 1,500 pF

Capacitance Tolerance: $\pm \frac{1}{2}$ pF (D), ± 1 pF (C), $\pm \frac{1}{2}$ % (E) ± 1 % (F), ± 1 % (F), ± 2 % (G), ± 5 % (J)

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Temperature Range: −55 °C to +125 °C

Ratings

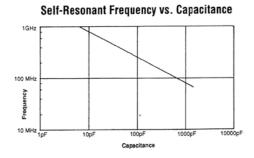
(pF)	Catalog Part Number	L In (mm)	H In (mm)	T In (mm)	S In (mm)	d In (mm)	(
			100 Vdc				1
910	CD4FA911J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	11
1000	CD4FA102J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	Ш
1100	CD4FA112J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	Ħ
1200	CD4FA122J03	.340 (8.6)	.310 (7.9)	.170 (4.3)	.100 (2.5)	.020 (.5)	Ħ
1500	CD4FA152J03	.340 (8.6)	.310 (7.9)	.180 (4.6)	.100 (2.5)	.020 (.5)	
			300 Vdc				11
560	CD4FC561J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)]
620	CD4FC621J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	Ш
680	CD4FC681J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	Ш
750	CD4FC751J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	
820	CD4FC821J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)	\prod
			500 Vdc]
1	CD4CD010D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)]
2	CD4CD020D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	Ш
3	CD4CD030D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	$\prod_{i=1}^{n}$
4	CD4CD040D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	
	CD4CD050D03		.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)]
6	CD4CD060D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)]]:
	CD4CD070D03	. ,	.220 (5.6)		.100 (2.5)	.020 (.5)	IJ
8	CD4CD080D03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	:
10	CD4CD100J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)	:
	CD4CD120J03		.220 (5.6)		.100 (2.5)	.020 (.5)] :
	CD4CD150J03	. ,	.220 (5.6)		.100 (2.5)	.020 (.5)	;
	CD4CD180J03	. ,	.220 (5.6)		.100 (2.5)	.020 (.5)	IJ
	CD4ED200J03	. ,	.220 (5.6)	, ,	.100 (2.5)	.020 (.5)	;
	CD4ED220J03	. ,	.220 (5.6)		.100 (2.5)	.020 (.5)	;
	CD4ED240J03		.220 (5.6)		.100 (2.5)	.020 (.5)] '
	CD4ED270J03	` '	.220 (5.6)		.100 (2.5)		'
	CD4ED300J03	` '	.220 (5.6)	, ,	.100 (2.5)	.020 (.5)	ΙĿ
	CD4ED330J03	, ,	.220 (5.6)	, ,	.100 (2.5)	.020 (.5)	ļĿ
$\underline{}$	CD4ED360J03		.220 (5.6)		.100 (2.5)	.020 (.5)	
CDE	Carpall Dubili	16055			1 11 0	16 1 4	

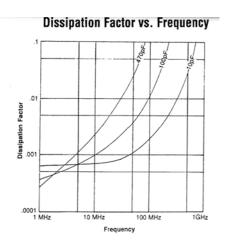
(pF) Catalog Part Number L In (mm) In (mm) In (mm)							
43 CD4ED430J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 47 CD4ED470J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 50 CD4ED500J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 51 CD4ED510J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 51 CD4ED560J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 62 CD4ED620J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 68 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 75 CD4ED750J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD101J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD121J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7	(pF)		_				
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50 CD4ED500J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 51 CD4ED510J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 56 CD4ED560J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 62 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 68 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 91 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12JJ03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD13JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD16JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD18JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD18JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD331J03 .340 (8.6) .310 (43	CD4ED430J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
51 CD4ED510J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5.5) 56 CD4ED560J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5.5) 62 CD4ED62J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5.5) 68 CD4ED680J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 91 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 100 CD4FD10J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (5.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (5.5) 120 CD4FD12J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5)	47	CD4ED470J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
56 CD4ED560J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5) 62 CD4ED62J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5.5) 68 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (5.5) 75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 91 CD4FD910J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 100 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (5.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (5.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (5.5) 130 CD4FD13J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5)	50	CD4ED500J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
62 CD4ED620J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 68 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 91 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12JJ03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD13JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD15JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD12JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD12JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD12JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD22JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD22JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 120 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 130 CD4FD33JJ03 .340 (8.6	51	CD4ED510J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
68 CD4ED680J03 .290 (7.4) .220 (5.6) .110 (2.8) .100 (2.5) .020 (.5) 75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 91 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD13J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD15J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD21J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD22JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD24JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD39JJ03 .340 (8.6) .31	56	CD4ED560J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
75 CD4ED750J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 91 CD4FD910J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	62	CD4ED620J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
82 CD4ED820J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 91 CD4FD910J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD13J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD15J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD16J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD20J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD22JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD24JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD27JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD30JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD31J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7	68	CD4ED680J03	.290 (7.4)	.220 (5.6)	.110 (2.8)	.100 (2.5)	.020 (.5)
91 CD4FD910J03 .290 (7.4) .220 (5.8) .110 (2.8) .100 (2.5) .020 (.5) 100 CD4FD10J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD13J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD15J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD16J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD18J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD20J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD22JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD24JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD24JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD25JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD27JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD39JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD33JJ03 .340 (8.6	75	CD4ED750J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
100 CD4FD101J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 110 CD4FD11J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD12J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5)	82	CD4ED820J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
110 CD4FD111J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 120 CD4FD121J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .31	91	CD4FD910J03	.290 (7.4)	.220 (5.8)	.110 (2.8)	.100 (2.5)	.020 (.5)
120 CD4FD121J03 .290 (7.4) .240 (6.1) .110 (2.8) .100 (2.5) .020 (.5) 130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5)	100	CD4FD101J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
130 CD4FD131J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5)	110	CD4FD111J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
150 CD4FD151J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	120	CD4FD121J03	.290 (7.4)	.240 (6.1)	.110 (2.8)	.100 (2.5)	.020 (.5)
160 CD4FD161J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .31	130	CD4FD131J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
180 CD4FD181J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .31	150	CD4FD151J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
200 CD4FD201J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	160	CD4FD161J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
220 CD4FD221J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	180	CD4FD181J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
240 CD4FD241J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	200	CD4FD201J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
250 CD4FD251J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	220	CD4FD221J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
270 CD4FD271J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	240	CD4FD241J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
300 CD4FD301J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	250	CD4FD251J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
330 CD4FD331J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	270	CD4FD271J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
360 CD4FD361J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	300	CD4FD301J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
390 CD4FD391J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5) 430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	330	CD4FD331J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
430 CD4FD431J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	360	CD4FD361J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
	390	CD4FD391J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
	430	CD4FD431J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
470 CD4FD471J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	470	CD4FD471J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
500 CD4FD501J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	500	CD4FD501J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)
510 CD4FD511J03 .340 (8.6) .310 (7.9) .160 (4.1) .100 (2.5) .020 (.5)	510	CD4FD511J03	.340 (8.6)	.310 (7.9)	.160 (4.1)	.100 (2.5)	.020 (.5)

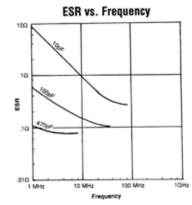
MEASURED AT POINT WHERE PHENOLIC CONE BECOMES A CYLINDER

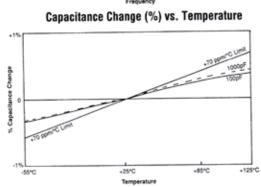
Type CD4 High-Frequency, Mica Capacitors

Typical Performance Curves





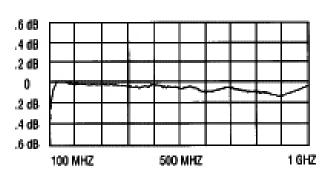


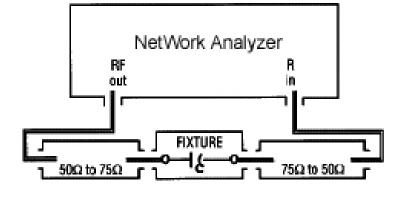


Insertion Loss

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.

Insertion Loss vs. Frequency for CD17FC621JO3, 75 Ω System





Choosing CD4, CD16, CDV16, CD18 or CDV18

While insertion loss is flat within ±.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.

TYPE	Flat to Above 1 GHz
CD17	470 pF max
CD4	620 pF max
CD16	870 pF
CDV16	870 pF
CD18	660 pF max
CDV18	1000 pF max

Type CD4 High-Frequency, Mica Capacitors

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