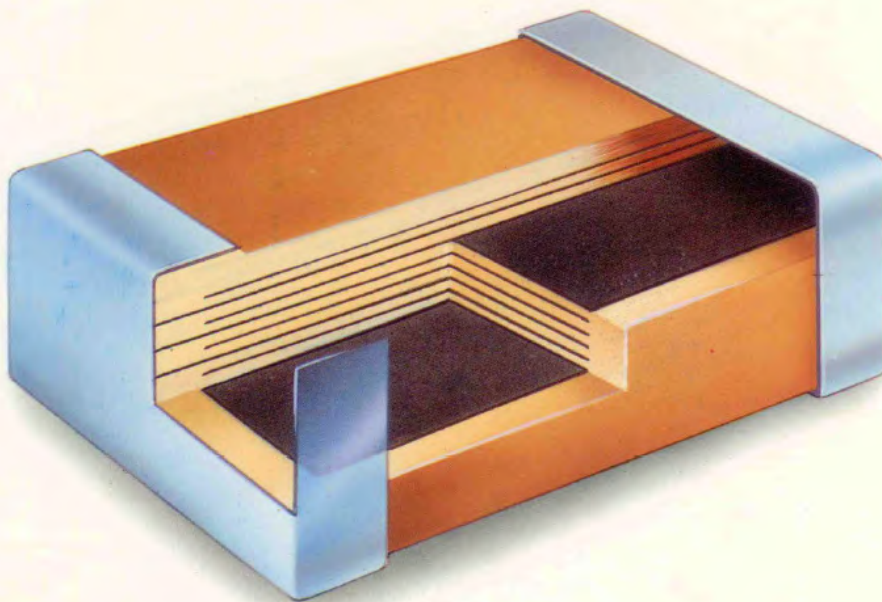


DALMIA 

MULTI
LAYER
CERAMIC **CH**IP
CAPACITOR



PRODUCT
CATALOG



Ph: +91-80-28520089/90/91
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Dalmia Bharat Sugar and Industries Ltd, Electronics Division
 53&54A, Keonics Electronics City Phase-I
 Electronics City, Bangalore-560100, India

CHIP, MULTI LAYER FIXED, CERAMIC DIELECTRIC CAPACITORS

Sl No	Capacitance Value pF	Tolerance %	Rated Voltage V DC	Style MIL	Dalmia Part
					CDR01BP
1	10	5 and 10	100	CDR01	100J/K BZMT
2	12				120
3	15				150
4	18				180
5	22				220
6	27				270
7	33				330
8	39				390
9	47				470
10	56				560
11	68				680
12	82				820
13	100				101
14	120				121
15	150				151
16	180				181
		10 and 20	50	CDR01	CDR01BX
17	120				121J/K BZMT
18	150				151
19	180				181
20	220				221K/M BZMT
21	270				271
22	330				331
23	390				391
24	470				471
25	560				561
26	680				681
27	820				821
28	1000				102
29	1200				122
30	1500				152
31	1800				182
32	2200				222
33	2700				272
34	3300				332
35	3900				392K/M AZMT
36	4700				472



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CHIP, MULTI LAYER FIXED, CERAMIC DIELECTRIC CAPACITORS

Sl No	Capacitance Value pF	Tolerance %	Rated Voltage V DC	Style MIL	Dalmia Part
					CDR04BP
1	1200	5 and 10	100	CDR04	122J/K BZMT
2	1500				152
3	1800				182
4	2200				222
5	2700				272
6	3300				332
		10 and 20	50		CDR04BX
7	39000				393K/M BZMT
8	47000				473
9	56000				563
10	82000				823K/M AZMT
11	100000				104
12	120000				124
13	150000				154
14	180000				184



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Sl No	Capacitance Value pF	Tolerance %	Rated Voltage V DC	Style MIL	Dalmia Part
1	6800	5 and 10	100	CDR06	CDR06BP
2	8200				682J/K BZMT
3	10000				823
		103			
4	390000	10 and 20	50		CDR06BX
5	470000				394K/M AZMT
					474



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CHIP, MULTI LAYER FIXED, CERAMIC DIELECTRIC CAPACITORS

Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part CDR12BG/BP
1	0.1	0.1pF	50 and 150	CDR12	0R1B A/K ZMT
2	0.2	0.1pF			0R2
3	0.3	0.1, 0.25pF			0R3 B/C A/K ZMT
4	0.4	0.1, 0.25pF			0R4
5	0.5	0.1pF 0.25pF 0.5pF			0R5 B/C/D A/K ZMT
6	0.6				0R6
7	0.7				0R7
8	0.8				0R8
9	0.9				0R9
10	1.0				1R0
11	1.1				1R1
12	1.2				1R2
13	1.3				1R3
14	1.4				1R4
15	1.5				1R5
16	1.6				1R6
17	1.7				1R7
18	1.8				1R8
19	1.9				1R9
20	2.0				2R0
21	2.1				2R1
22	2.2				2R2
23	2.4				2R4
24	2.7				2R7
25	3.0				3R0
26	3.3				3R3
27	3.6				3R6
28	3.9				3R9
29	4.3				4R3
30	4.7				4R7
31	5.1				5R1
32	5.6				5R6
33	6.2				6R2
34	6.8	0.1pF			6R8 B/C/J/K/M A/K ZMT
35	7.5	0.25pF			7R5
36	8.2	5%, 10%, 20%			8R2
37	9.1				9R1



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SI No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part CDR12BG/BP
38	10	1% 2% 5% 10% 20%	50 and 150	CDR12	100 F/G/J/K/M A/K ZMT
39	11				110
40	12				120
41	13				130
42	15				150
43	16				160
44	18				180
45	20				200
46	22				220
47	24				240
48	27				270
49	30				300
50	33				330
51	36				360
52	39				390
53	43				430
54	47				470
55	51				510
56	56				560
57	62				620
58	68				680
59	75				750
60	82				820
61	91				910
62	100				101
					CDR12BP
63	110	1% 2% 5% 10% 20%	50	CDR12	111 F/G/J/K/M A ZMT
64	120				121
65	130				131
66	150				151
67	160				161
68	180				181
69	200				201
70	220				221
71	240				241
72	270				271
73	300				301
74	330				331
75	360				361
76	390				391
77	430				431
78	470				471
78	510				511
78	560				561
78	620				621
78	680				681
78	750				751
78	820				821
78	910				811
78	1000				102



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Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part CDR14BG/BP
1	0.1	0.1pF	200 and 500	CDR14	0R1B C/E ZMT
2	0.2				0R2
3	0.3	0.1, 0.25pF			0R3 B/C C/E ZMT
4	0.4				0R4
5	0.5	0.1pF 0.25pF 0.5pF			0R5 B/C/D C/E ZMT
6	0.6				0R6
7	0.7				0R7
8	0.8				0R8
9	0.9				0R9
10	1.0				1R0
11	1.1				1R1
12	1.2				1R2
13	1.3				1R3
14	1.4				1R4
15	1.5				1R5
16	1.6				1R6
17	1.7				1R7
18	1.8				1R8
19	1.9				1R9
20	2.0				2R0
21	2.1				2R1
22	2.2				2R2
23	2.4				2R4
24	2.7				2R7
25	3.0				3R0
26	3.3				3R3
27	3.6				3R6
28	3.9				3R9
29	4.3				4R3
30	4.7				4R7
31	5.1				5R1
32	5.6				5R6
33	6.2				6R2
34	6.8	0.1pF 0.25pF 5%, 10%, 20%			6R8 B/C/J/K/M C/E ZMT
35	7.5				7R5
36	8.2				8R2
37	9.1				9R1



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Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part CDR14BG/BP
38	10	1% 2% 5% 10% 20%	200 and 500	CDR14	100 F/G/J/K/M C/E ZMT
39	11				110
40	12				120
41	13				130
42	15				150
43	16				160
44	18				180
45	20				200
46	22				220
47	24				240
48	27				270
49	30				300
50	33				330
51	36				360
52	39				390
53	43				430
54	47				470
55	51				510
56	56				560
57	62				620
58	68				680
59	75				750
60	82				820
61	91				910
62	100				101
63	110		200 and 300	CDR14	111 F/G/J/K/M C/D ZMT
64	120				121
65	130				131
66	150				151
67	160				161
68	180				181
69	200				201
70	220		221 F/G/J/K/M C ZMT		
71	240		200		241
72	270				271
73	300				301
74	330				331
75	360				361
76	390				391
77	430				431
78	470				471



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Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part
					CDR14BG/BP
79	510	1% 2% 5% 10% and 20%	100	CDR14	511 F/G/J/K/M B ZMT
80	560				561
81	620				621
82	680				681 F/G/J/K/M A ZMT
83	750		50		751
84	820				821
85	910				811
86	1000				102
			50		CDR14BP
87	1100				112 F/G/J/K/M A ZMT
88	1200				122
89	1300				132
90	1500				152
91	1600				162
92	1800				182
93	2000				202
94	2200				222
95	2400				242
96	2700				272
97	3000				302
98	3300				332
99	3600				362
100	3900				392
101	4300				432
102	4700				472
103	5000				502
104	5100				512



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CHIP, MULTI LAYER FIXED, CERAMIC DIELECTRIC CAPACITORS

Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part		
					CDR31BP		
1	1.0	0.1pF and 0.25pF	100	CDR31	1R0 B/C BZMT		
2	1.1				1R1		
3	1.2				1R2		
4	1.3				1R3		
5	1.5				1R5		
6	1.6				1R6		
7	1.8				1R8		
8	2.0				2R0		
9	2.2				2R2		
10	2.4				2R4		
11	2.7	0.1pF 0.25pF and 0.5pF					2R7 B/C/D BZMT
12	3.0						3R0
13	3.3						3R3
14	3.6						3R6
15	3.9						3R9
16	4.3						4R3
17	4.7						4R7
18	5.1						5R1
19	5.6						5R6
20	6.2						6R2
21	6.8						6R8
22	7.5						7R5
23	8.2						8R2
24	9.1						9R1
		1% 5% and 10%	100	CDR31	CDR31BP		
25	10						100F/J/K BZMT
26	12						120
27	13						130
28	15						150
29	16						160
30	18						180
31	20						200
32	22						220
33	24						240
34	27						270
35	30						300
36	33						330
37	36						360
38	39						390
39	43						430
40	47						470
41	51						510
42	56						560
43	62						620
44	68			680			



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Sl No	Capacitance Value pF	Tolerance %	Rated Voltage V DC	Style MIL	Dalmia Part
					CDR31BP
45	75	1 5 and 10	100	CDR31	750F/J/K BZMT
46	82				820
47	91				910
48	100				101
49	120				121
50	130				131
51	150				151
52	160				161
53	180				181
54	200				201
55	220				221
56	240				241
57	270				271
58	300				301
59	330				331
60	360				361
61	390				391
62	430				431
63	470				471
64	510		50	CDR31	511F/J/K AZMT
65	560				561
66	620				621
67	680				681
68		10 and 20	100	CDR31	CDR31BX
69	470				471K/M BZMT
70	560				561
71	680				681
72	820				821
73	1000				102
74	1200				122
75	1500				152
76	1800				182
77	2200				222
78	2700				272
79	3300				332
80	3900				392
81	4700				472
82	5600		50	CDR31	562K/M AZMT
83	6800				682
84	8200				822
85	10000				103
86	12000				123
87	15000				153
88	18000				183



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CHIP, MULTI LAYER FIXED, CERAMIC DIELECTRIC CAPACITORS

Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part
					CDR32BP
1	1.0	0.1pF and 0.25pF	100	CDR32	1R0 B/C BZMT
2	1.1				1R1
3	1.2				1R2
4	1.3				1R3
5	1.5				1R5
6	1.6				1R6
7	1.8				1R8
8	2.0				2R0
9	2.2				2R2
10	2.4				2R4
11	2.7	0.1pF 0.25pF and 0.5pF	100	CDR32	2R7B/C/D BZMT
12	3.0				3R0
13	3.3				3R3
14	3.6				3R6
15	3.9				3R9
16	4.3				4R3
17	4.7				4R7
18	5.1				5R1
19	5.6				5R6
20	6.2				6R2
21	6.8				6R8
22	7.5				7R5
23	8.2				8R2
24	9.1				9R1
25	10	1% 5% and 10%	100	CDR32	100F/J/K BZMT
26	12				120
27	13				130
28	15				150
29	16				160
30	18				180
31	20				200
32	24				240
33	27				270
34	30				300
35	33				330
36	39				390
37	43				430
38	47				470
39	51				510
40	56				560
41	62				620
42	68				680
43	75				750
44	82				820



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Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part	
					CDR32BP	
45	91	1% 5% and 10%	100	CDR32	910F/J/K BZMT	
46	100				101	
47	110				111	
48	120				121	
49	130				131	
50	150				151	
51	160				161	
52	180				181	
53	200				201	
54	220				221	
55	240				241	
56	270				271	
57	300				301	
58	330				331	
59	390				391	
60	430				431	
61	470				471	
62	510				511	
63	560				561	
64	620				621	
65	680				681	
66	750				751	
67	820				821	
68	910				911	
69	1000				102	
70	1100				112	
71	1200				122	
72	1300				132	
73	1500				152	
74	1600				162	
75	1800	50		182F/J/K AZMT		
76	2000			202		
77	2200			222		
78	4700	10% and 20%	100	CDR32	CDR32BX	
79	5600				472K/M BZMT	
80	6800				562	
81	8200				682	
82	10000				822	
83	12000				103	
84	15000				123	
85	18000				153	
86	22000				50	
87	27000				223	
88	33000				273	
89	39000				333	
					393	



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Sl No	Capacitance Value pF	Tolerance %	Rated Voltage V DC	Style MIL	Dalmia Part	
					CDR34BP	
1	2200	1 5 and 10	100	CDR34	222F/J/K BZMT	
2	2400				242	
3	2700				272	
4	3000				302	
5	3300				332	
6	3600				362	
7	3900				392	
8	4300				432	
9	4700				472	
10	5100		50		512F/J/K AZMT	
11	5600				562	
12	6200				622	
13	6800				682	
14	7500				752	
15	8200				822	
16	9100				912	
17	10000				103	
18		10 and 20	100		CDR34BX	
19	27000				273K/M BZMT	
20	33000				333	
21	39000				393	
22	47000				473	
23	56000				563	
24	100000		50		104K/M AZMT	
25	120000				124	
26	150000				154	
27	180000				184	

CHIP CAPACITOR ON TAPE AND REEL

PRODUCT OFFERING

SIZES

CDR01, CDR31, CDR14, CDR33, CDR32 (8mm tape)
CDR04, CDR34 (12mm tape)

REEL SIZE

7" (180mm) diameter standard.

13" (330mm) diameter, optional for CDR04, CDR34 only

UNITS PER REEL

See table. Orders must comprise integral reels.

TAPE

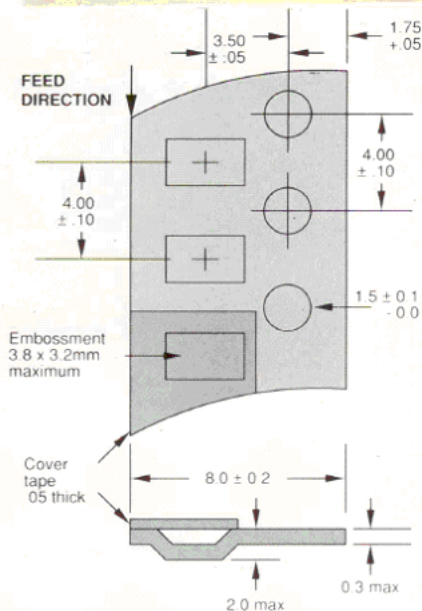
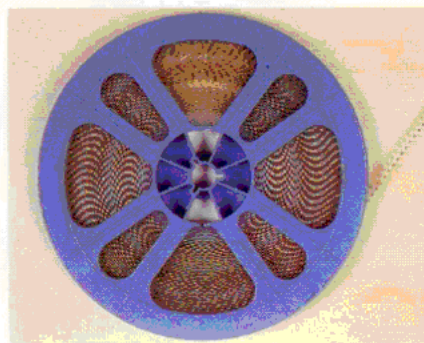
CDR01, 31, 32 : Punched paper, Embossed plastic
CDR14, 33, 04, 34 : Embossed plastic only

UNITS PER REEL

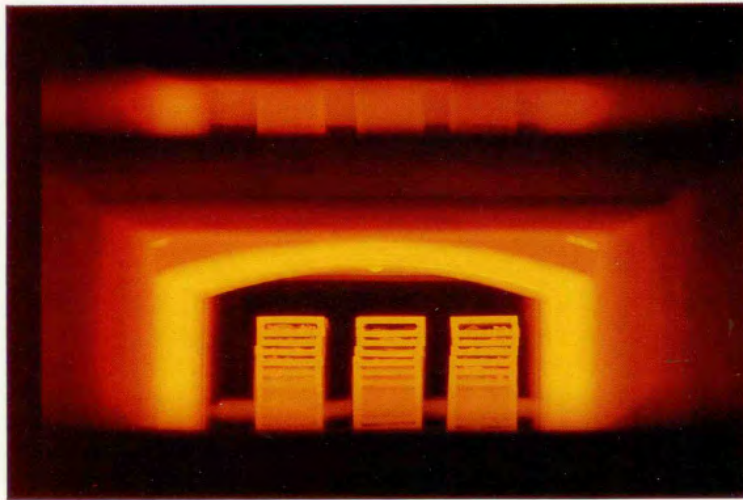
Chip Size	Width Tape	Units Per Reel*
CDR01, CDR31	8mm	3000 - 4000
CDR32	8mm	3000 - 4000
CDR11, CDR33	8mm	2000 - 2500
CDR04, CDR34	12mm	1000

Based on 7" diameter reel. Quantity per reel varies with chip thickness. Thicker chips (typically higher capacitance values) will result in the lesser quantities.

For maximum capacitance values (only) in sizes CDR01, 31 and CDR32 units will be built to their maximum thickness, and equal to their nominal width. As thickness is a maximum dimension, versus a nominal width with \pm tolerance, units may have a near square cross section (within .010"), and hence may be oriented in the reel on edge or side.



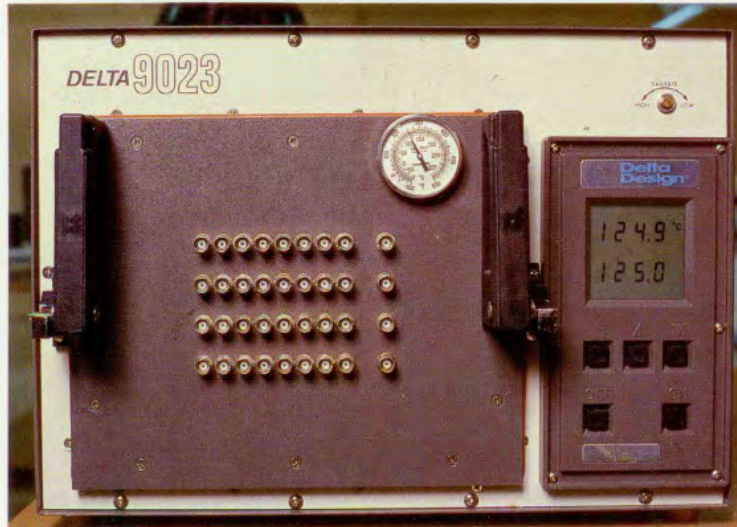
NOTE : Dimensions for 8mm tape. Dimensions with maximum tolerance are dependant on component size.



HIGH-FIRE KILN



BURN-IN CHAMBER



CHAMBER FOR TEMPERATURE CO EFFICIENT OF CAPACITANCE



NICKEL BARRIER TERMINATION



MOISTURE RESISTANCE TEST CHAMBER
(Method 106 as per MIL-STD-202)



HUMIDITY, STEADY STATE, LOW VOLTAGE TEST CHAMBER
(Method 103 as per MIL-STD-202)



EIGHT ZONE BTU FIRING KILN WITH ATTACHED DRIER



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(ELECTRONICS DIVISION)

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