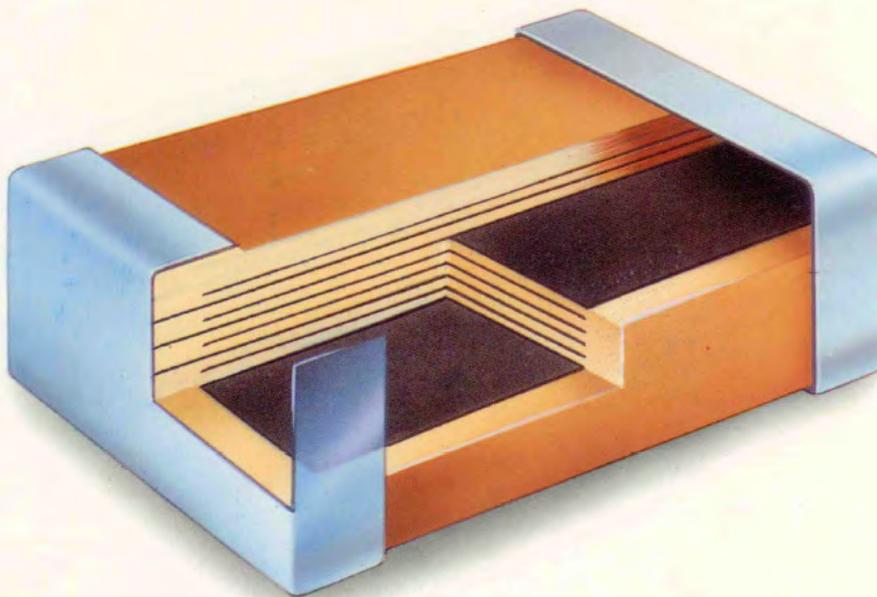


DALMIA 

MULTI
LAYER
CERAMIC
CHIP
CAPACITOR



PRODUCT
CATALOG



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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			
					CDR01BX			
17	120	10 and 20	100	CDR01	121J/K BZMT			
18	150				151			
19	180				181			
20	220				10 and 20	100	CDR01	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	10 and 20	50	CDR01	222			
33	2700				272			
34	3300				332			
35	3900				10 and 20	50	CDR01	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
					CDR04BX
7	39000	10 and 20	50		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	100	CDR06	CDR06BP
2	8200	and			682J/K BZMT
3	10000	10			823
			103		
			CDR06BX		
4	390000	10	50		394K/M AZMT
5	470000	and		474	
		20			



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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	0.1, 0.25pF			0R2
3	0.3				0R3 B/C C/E ZMT
4	0.4				0R4
5	0.5				0R5 B/C/D C/E ZMT
6	0.6	0.1pF 0.25pF 0.5pF			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 C/E ZMT
35	7.5	0.25pF			7R5
36	8.2	5%, 10%, 20%			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		200			221 F/G/J/K/M C ZMT		
71	240					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		50		681 F/G/J/K/M A ZMT
83	750				751
84	820				821
85	910		811		
86	1000		102		
					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		
1	1.0	0.1pF and 0.25pF	100	CDR31	CDR31BP		
2	1.1				1R0 B/C BZMT		
3	1.2				1R1		
4	1.3				1R2		
5	1.5				1R3		
6	1.6				1R5		
7	1.8				1R6		
8	2.0				1R8		
9	2.2				2R0		
10	2.4				2R2		
11	2.7	2R4					
12	3.0	0.1pF 0.25pF and 0.5pF			100	CDR31	2R7 B/C/D BZMT
13	3.3						3R0
14	3.6						3R3
15	3.9						3R6
16	4.3						3R9
17	4.7						4R3
18	5.1						4R7
19	5.6						5R1
20	6.2						5R6
21	6.8						6R2
22	7.5						6R8
23	8.2						7R5
24	9.1						8R2
			9R1				
25	10	1% 5% and 10%	100	CDR31	CDR31BP		
26	12				100F/J/K BZMT		
27	13				120		
28	15				130		
29	16				150		
30	18				160		
31	20				180		
32	22				200		
33	24				220		
34	27				240		
35	30				270		
36	33				300		
37	36				330		
38	39				360		
39	43				390		
40	47				430		
41	51				470		
42	56				510		
43	62				560		
44	68				620		
		680					



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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
45	75	1 5 and 10	100	CDR31	CDR31BP 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
65	560	561			
66	620	621			
67	680	681			
68		10 and 20	100	CDR31	CDR31BX 471K/M BZMT
69	470				561
70	560				681
71	680				821
72	820				102
73	1000				122
74	1200				152
75	1500				182
76	1800				222
77	2200				272
78	2700				332
79	3300				392
80	3900	472			
81	4700	50	CDR31	562K/M AZMT	
82	5600			682	
83	6800			822	
84	8200			103	
85	10000			123	
86	12000			153	
87	15000			183	
88	18000				



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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
					2R7B/C/D BZMT
11	2.7	0.1pF 0.25pF and 0.5pF	100	CDR32	3R0
12	3.0				3R3
13	3.3				3R6
14	3.6				3R9
15	3.9				4R3
16	4.3				4R7
17	4.7				5R1
18	5.1				5R6
19	5.6				6R2
20	6.2				6R8
21	6.8				7R5
22	7.5				8R2
23	8.2				9R1
24	9.1				
					100F/J/K BZMT
25	10	1% 5% and 10%	100	CDR32	120
26	12				130
27	13				150
28	15				160
29	16				180
30	18				200
31	20				240
32	24				270
33	27				300
34	30				330
35	33				390
36	39				430
37	43				470
38	47				510
39	51				560
40	56				620
41	62				680
42	68				750
43	75				820
44	82				



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Sl No	Capacitance Value pF	Tolerance	Rated Voltage V DC	Style MIL	Dalmia Part			
45	91	1% 5% and 10%	100	CDR32	CDR32BP			
46	100				910F/J/K BZMT			
47	110				101			
48	120				111			
49	130				121			
50	150				131			
51	160				151			
52	180				161			
53	200				181			
54	220				201			
55	240				221			
56	270				241			
57	300				271			
58	330				301			
59	390				331			
60	430				391			
61	470				431			
62	510				471			
63	560				511			
64	620				561			
65	680				621			
66	750				681			
67	820				751			
68	910				821			
69	1000				911			
70	1100				102			
71	1200				112			
72	1300				122			
73	1500				132			
74	1600				152			
75	1800				162			
76	2000				182F/J/K AZMT			
77	2200				202			
					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							183K/M AZMT
87	27000							223
88	33000							273
89	39000							333



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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				CDR34BX	
19	27000	10 and 20	100	CDR34	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

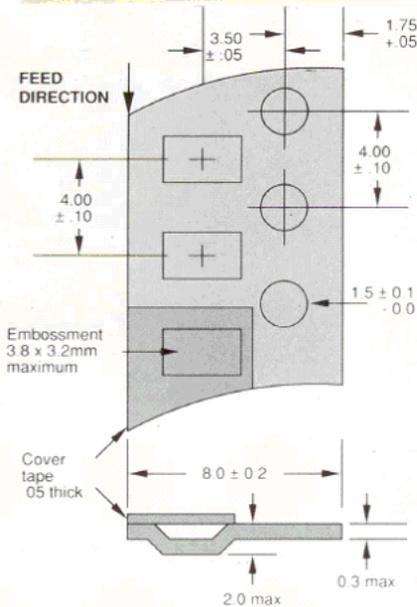
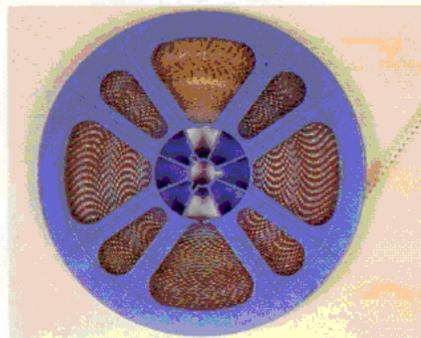
CDR01, 31, 32 : Punched paper, Embossed plastic
 CDR14, 33, 04, 34 : Embossed plastic only

UNITS PER REEL

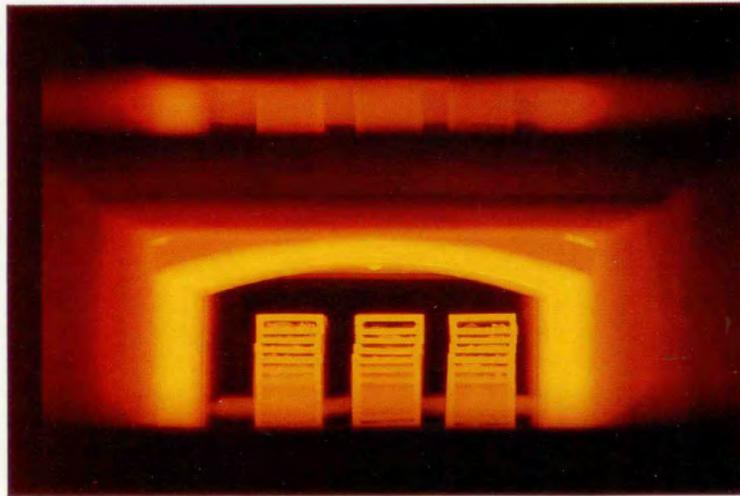
Chip Size	Width Tape	Units Per Reel*
CDR01, CDR31	8mm	3000 - 4000
CDR32	8mm	3000 - 4000
CDR11, CDR33	8mm	2000 - 2500
CDR04, CDR34	12mm	1000

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.



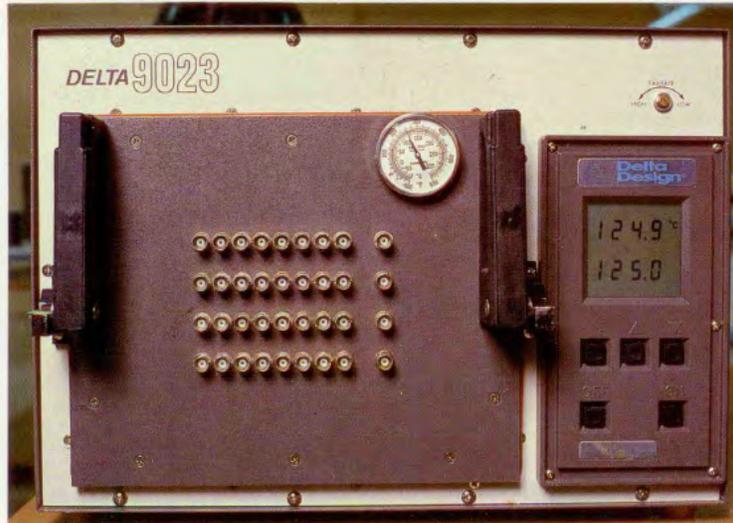
NOTE : Dimensions for 8mm tape. Dimensions with maximum tolerance are dependant on component size.



HIGH-FIRE KILN



BURN-IN CHAMBER



CHAMBER FOR TEMPERATURE CO EFFICIENT OF CAPACITANCE



NICKEL BARRIER TERMINATION



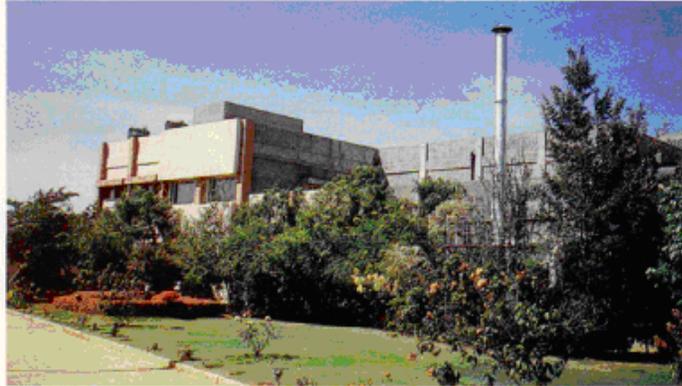
MOISTURE RESISTANCE TEST CHAMBER
(Method 106 as per MIL-STD-202)



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



EIGHT ZONE BTU FIRING KILN WITH ATTACHED DRIER



DALMIA BHARAT SUGAR AND INDUSTRIES LTD

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