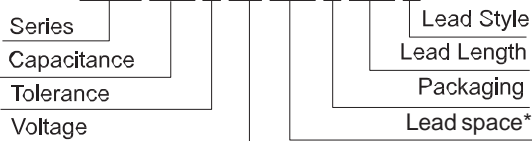


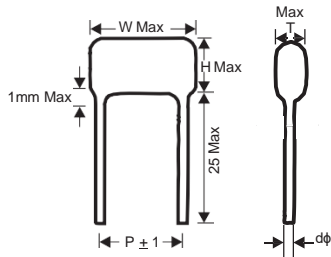

CDAB SERIES: General Purpose

INTRODUCTION

CDAB Series are constructed with metalized polyester film dielectric, copperplated lead and epoxy resin powder coating. They are suitable for blocking, coupling, decoupling, filtering, bypass timing circuit and ideal for use in telecommunication equipment, data processing equipment, industrial instrument, automatic control systems and other general electronic equipment.

PART NUMBER EXAMPLE
CDAB 104 K 2A 075 B 200 S**


* Leadspace is straight lead non-formed original leadspace.


CAPACITANCE CODE

F	0.01	0.047	0.1	0.47	1.0	4.7	10
pF	10000	47000	100000	470000	-	-	-
Code	103	473	104	474	105	475	106

RATED VOLTAGE

WV	100	250	400	630
Code	2A	2E	2G	2J

PACKAGING

Method	Bulk	Ammo	Reel
Code	B	A	R

RADIAL LEAD SPACING

* Leadspace is straight lead non-formed original leadspace.

mm	5.0	7.5	10	15	22.5	27.5
Code	050	075	100	150	225	275

LEAD LENGTH FROM SEATING PLANE

(Bulk Pack and is ± 1mm when < 10mm, otherwise is nominal)

mm	5	10	15	20	25
Code	050	100	150	200	250

FEATURES

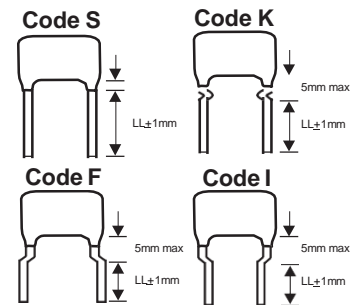
- ◆ High moisture resistance
- ◆ Good solderability
- ◆ Non-inductive construction
- ◆ Self-healing property

SPECIFICATIONS

Item	Performance
Operating Temp. Range	-40°C~115°C (V _R Derates 1.25% per °C over 105°C)
Capacitance Range	0.01μF ~ 10μF
Capacitance Tolerance	± 5%(J), 10%(K), +20%(M)
Rated Voltage V _R 85°C	100Vdc, 250Vdc, 400Vdc, 630Vdc
Dissipation Factor	1.0%(0.01)max @ 1Khz, 25°C
Insulation Resistance	≥ 9000MΩ (C ≤ 0.33μF) ≥ 3000MΩ x μF (C > 0.33μF)

TOLERANCE

Code	Tolerance
J	+ 5%
K	+ 10%
M	+ 20%

LEAD STYLE EXAMPLES


Typical length (LL) is 20mm for straight lead bulk pack

TAPE CODE (Lead spacing on tape, if taped)

Spacing	5.0mm	7.5mm	10mm	15mm
Packing	A or R	A or R	A	A
Code	RT1	RT2	RT3	RT4

LEAD STYLE

Code	Style
S	Straight
K	Kink-In (Stand Off)
F	Form Out**
I	Form In**

** For Bulk packaging with formed leads, add an additional 3 digit lead spacing code at end of part number.



CDAB SERIES: General Purpose

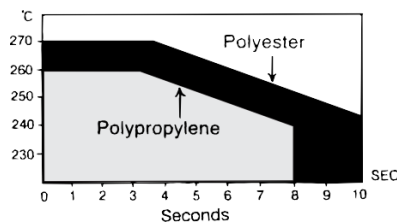
MAXIMUM DIMENSIONS (mm)

μF	W . V . Code	100VDC (2A)					250VDC (2E)					400VDC (2G) / 450VDC (2W)					630VDC (2J)								
		W	H	T	P	dΦ	W	H	T	P	dΦ	W	H	T	P	dΦ	W	H	T	P	dΦ				
0.01	103																13.0	8.0	5.0	10.0	0.6				
0.012	123																13.0	8.5	5.0	10.0	0.6				
0.015	153															10.5	8.0	4.5	7.5	0.6	13.0	9.5	5.5	10.0	0.6
0.018	183															10.5	8.5	5.0	7.5	0.6	13.0	11.0	5.5	10.0	0.6
0.022	223															10.5	8.5	5.0	7.5	0.6	13.0	11.5	6.0	10.0	0.6
0.027	273															10.5	9.0	5.5	7.5	0.6	13.0	12.0	6.5	10.0	0.6
0.033	333															10.5	9.5	6.0	7.5	0.6	13.0	12.5	7.0	10.0	0.6
0.039	393															10.5	8.0	4.0	7.5	0.6	13.0	8.5	4.5	10.0	0.6
0.047	473															10.5	8.0	4.5	7.5	0.6	13.0	9.0	5.5	10.0	0.6
0.056	563															10.5	8.5	5.0	7.5	0.6	13.0	9.5	5.5	10.0	0.6
0.068	683															10.5	8.5	5.0	7.5	0.6	13.0	11.0	5.5	10.0	0.6
0.082	823															10.5	9.5	5.5	7.5	0.6	13.0	11.5	5.5	10.0	0.6
0.1	104	10.5	7.5	4.0	7.5	0.6	10.5	10.0	6.0	7.5	0.6	12.0	9.0	5.0	10.0	0.6	18.5	12.0	6.0	15.0	0.8				
0.12	124	10.5	7.5	4.0	7.5	0.6	10.5	10.5	6.5	7.5	0.6	18.5	10.5	5.0	15.0	0.8	18.5	14.5	7.0	15.0	0.8				
0.15	154	10.5	8.0	4.5	7.5	0.6	10.5	11.0	7.0	7.5	0.6	18.5	11.5	5.5	15.0	0.8	18.5	15.5	8.0	15.0	0.8				
0.18	184	10.5	8.5	5.0	7.5	0.6	13.0	9.0	4.5	10.0	0.6	18.5	12.0	6.0	15.0	0.8	18.5	16.0	8.5	15.0	0.8				
0.22	224	10.5	8.5	5.0	7.5	0.6	10.3	11.0	6.1	7.5	0.6	11.3	4.3	7.0	10.0	0.8	11.3	11.3	7.0	10.0	0.6				
0.27	274	10.5	9.5	5.5	7.5	0.6	13.0	11.0	5.0	10.0	0.6	18.5	13.5	6.0	15.0	0.8	18.5	16.5	9.0	15.0	0.8				
0.33	334	10.5	10.0	6.0	7.5	0.6	12.0	12.0	6.5	7.5	0.6	12.0	12.0	7.5	10.0	0.6	26.5	17.0	8.5	22.5	0.8				
0.39	394	10.5	10.5	6.0	7.5	0.6	18.0	9.0	5.0	15.0	0.6	18.5	15.5	8.5	15.0	0.8	26.5	17.0	9.0	22.5	0.8				
0.47	474	10.5	12.0	6.0	7.5	0.6	18.5	13.0	5.5	15.0	0.8	18.5	17.5	8.5	15.0	0.8	26.5	18.0	10.0	22.5	0.8				
0.56	564	13.0	11.0	5.5	10.0	0.6	18.5	13.0	6.0	15.0	0.8	26.0	16.0	7.5	22.5	0.8	26.5	18.0	11.0	22.5	0.8				
0.68	684	13.0	11.5	6.0	10.0	0.6	18.5	13.5	6.0	15.0	0.8	26.0	17.0	8.0	22.5	0.8	26.0	21.5	12.5	22.5	0.8				
0.82	824	13.0	13.0	6.0	10.0	0.6	18.5	14.0	7.0	15.0	0.8	26.0	17.5	9.0	22.5	0.8	31.0	21.0	12.0	27.5	0.8				
1	105	13.0	14.0	6.5	10.0	0.6	18.5	15.0	8.5	15.0	0.8	26.0	18.5	10.0	22.5	0.8	31.0	22.0	13.5	27.5	0.8				
1.2	125	18.5	12.5	5.5	15.0	0.8	18.5	15.5	8.5	15.0	0.8	26.0	20.0	11.0	22.5	0.8	31.0	23.5	15.0	27.5	0.8				
1.5	155	18.5	13.5	6.0	15.0	0.8	18.5	16.5	9.5	15.0	0.8	31.0	19.5	11.0	27.5	0.8	31.0	26.5	16.0	27.5	0.8				
1.8	185	18.5	14.0	6.5	15.0	0.8	26.0	16.0	7.5	22.5	0.8	31.0	21.0	12.0	27.5	0.8	31.0	28.0	18.0	27.5	0.8				
2.2	225	18.5	15.0	7.0	15.0	0.8	26.0	17.0	8.5	22.5	0.8	31.0	23.5	13.0	27.5	0.8	31.0	30.5	20.0	27.5	0.8				
2.7	275	18.5	16.0	7.5	15.0	0.8	26.0	18.0	9.5	22.5	0.8														
3.3	335	18.5	16.5	8.5	15.0	0.8	26.0	19.0	10.5	22.5	0.8														
3.9	395	26.0	16.0	7.0	22.5	0.8	26.0	21.5	10.5	22.5	0.8														
4.7	475	26.0	17.0	7.5	22.5	0.8	26.0	22.0	12.0	22.5	0.8														
5.6	565	26.0	17.5	8.0	22.5	0.8	31.0	22.0	12.0	27.5	0.8														
6.8	685	26.0	18.5	9.0	22.5	0.8	31.0	23.5	13.0	27.5	0.8														
8.2	825	26.0	20.0	10.0	22.5	0.8	31.0	25.0	14.5	27.5	0.8														
10	106	26.0	21.0	11.5	22.5	0.8	31.0	26.5	16.5	27.5	0.8														

PERFORMANCE

Item	Metalized Polyester
Capacitance Drift	Cycled through the operating temperature range 2%.
Humidity Test	Will withstand the test of R.H. 95% at 40°C for 1000hrs. C ≤ 5% DF < 1.2% IR > 10000MΩ
Load Test	Will withstand a testing voltage at 140% of W.V. for 1000hrs. at 85°C. C ≤ 5% DF < 1.2% IR > 5000MΩ
Lead Pull Test	Will withstand a pull of 1.5Kg applied axially for 10 seconds.
Lead Bend Test	Will sustain two cycles without breaking when attaching a load of 0.5Kg to the end of the lead and then rotating the capacitor 90° from the direction of lead egress. Then 180° in opposite direction. Then back to the starting point.
Solderability	Immersed in molten solder (230±0.5 sec. After testing, the wound lead and gap in the wound lead will be covered and filled by solder. Will be difficult to unwind by finger
Dielectric Strength	Shall withstand 200% or 160% of rated voltage at 25°C for 1 minute with current limiting resistance of 1Ω / V

SOLDERING



The area under the curve is the recommended soldering time & temp. for the materials shown.

CDAB SERIES: General Purpose

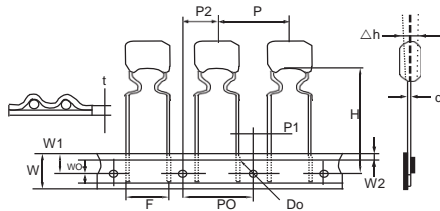
RADIAL TAPING CODE DIAGRAM


Fig. 1
F=7.5mm
(RT2)

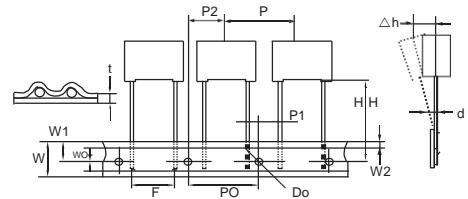


Fig. 2
F=7.5mm
(RT2)

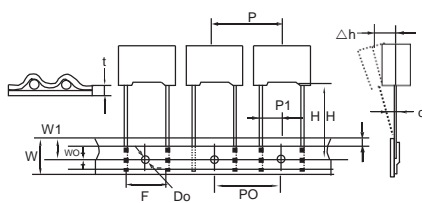


Fig. 3 Box
F=7.5mm
Ammo Only
(RT2)

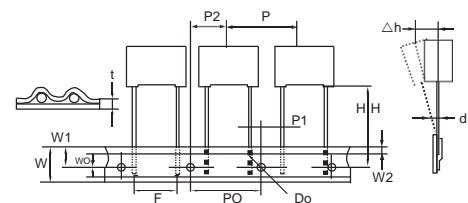


Fig. 4 Box or Epoxy Coated
F=10 = Ammo Only
F=15 Every other space skipped because
of Larger body - Ammo Only
(RT3 or RT4)

SPECIFICATIONS

Description	Letter	Dimension (mm)			
		RT2	RT3	RT4	Tol.
Lead Wire Diameter	d	0.5 / 0.6	0.6	0.6 / 0.8	± 0.05
Tape Pitch	P	12.7	12.7	25.4	± 1
Feed Hole Pitch	PO	12.7	12.7	12.7	± 0.2
Centering of the Lead Wire	P1	2.6 / 3.75	7.7	5.2	± 0.7
Centering of the Body	P2	6.35	12.7	12.7	± 1.3
Lead Spacing (Pitch)	F	7.5	10	15	± 0.6; -0.1
Component Alignment	Δh	0	0	0	± 2
Height of Component from Tape Center	H	18.5	18.5	18.5	± 0.5
Carrier Tape Width	W	18	18	18	± 1; -0.5
Hold Down Tape Width	WO	6	9	10	Min
Hole Position	W1	9	9	9	± 0.5
Hold Down Tape Position	W2	3	3	3	Max
Feed Hole Diameter	Do	4	4	4	± 0.2
Tape Thickness	t	0.5	0.5	0.5	± 0.2
Figure	fig	1.2 or 3	4	4	

Remark: *Allowance of accumulated pitch less than 1mm at the sum of 20 pitches.

*Continuous empty component less than 3 consecutive pieces.

*Total empty on one reel less than 1%.