

Aluminum Electrolytic Capacitors



Part Number System :

GR (1)	100 (2)	M (3)	16 (4)	B (5)
<u>SERIES</u> Series	<u>CAPACITANCE</u> OR1 = 0.1UF OR47 = 0.47UF 1 = 1UF 22 = 2UF 100=100UF	<u>TOLERANCE</u> K=±10% M=±20%	<u>RATED VOLTAGE</u> 6.3=6.3V 10=10V 16=16V 25=25V 50=50V	<u>PACKING</u> B=Bulk A=Tape/box C=Cut F=Form & Cut R=Tape/Reel

(1) Series

For examples, GR series guarantees 2000 hrs at 85°C.

(2) Capacitance (μF).

Code	OR1	OR47	1	4U7	10	100	1000	10000
μF	0.1	0.47	1	4.7	10	100	1000	10000

(3) Tolerance

Code	K	M
Tolerance %	±10	±20

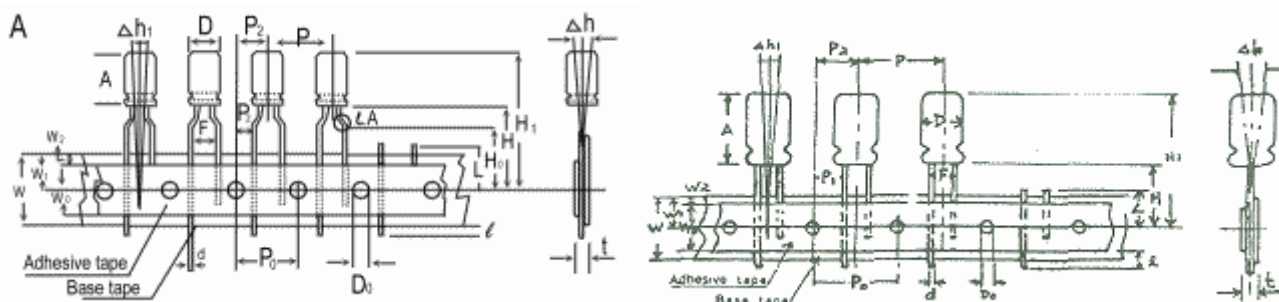
(4) Voltage (WV)

Code	4	6.3	10	16	25	35	50	63	80	100	160	200	250	350	400	450
Voltage (WV)	4	6.3	10	16	25	35	50	63	80	100	160	200	250	350	400	450

(5) Packing

Code	B	A	C	F	R
Packing	Bulk	Tape/box	Cut lead	Formed & Cut	Tape/reel

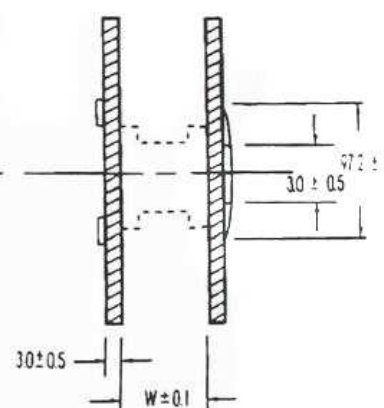
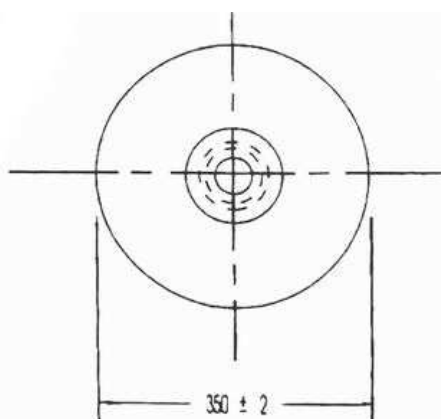
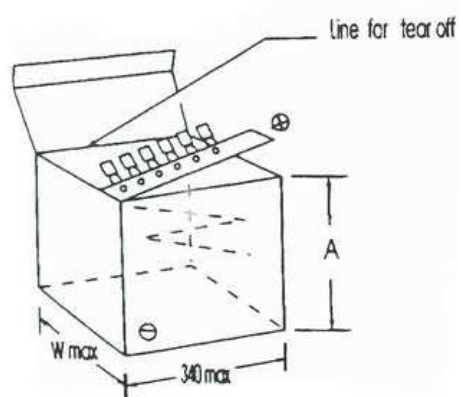
Radial lead type Tapping Dimensions :



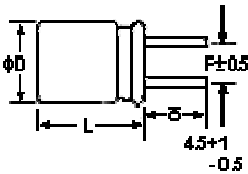
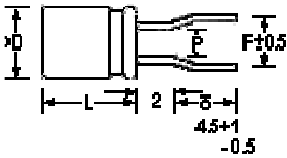
Item	Symbol	Case size 3 , 4, 5, 6.3 ϕ	Case size 3, 4, 5, 6.3, 8, 10 ϕ	Tol(mm)
Pitch of body	P	12.7		± 1.0
Feed hole pitch	Po	12.7		± 0.2
Hole center to lead distance	P1	5.1	3.85	± 0.7
Feed hole center to body center	P2	6.35		± 1.0
Lead to lead distance	F	2.5	5.0	± 0.8
Base tape width	W	18.0		± 0.5
Adhesive tape width	W0	12.5		min
Hole position	W1	9.0		± 0.75
Hole down tape position	W2	3.0		max
Height of body from tape center	H	18.5		± 0.75
Lead wire clinch height	Ho	16.0		± 0.5
Feed hole diameter	Do	4.0		± 0.3
Lead wire protrusion	l	1.0		max
Length of snapped lead	L	11.0		max
Total tape thickness	t	0.7		± 0.3

Radial lead type Tapping Dimensions :

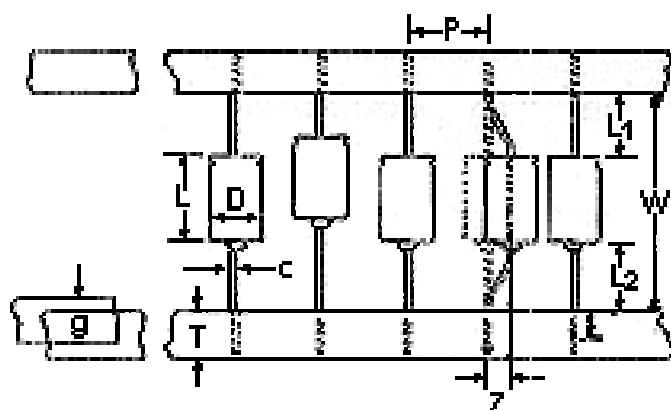
Diameter ϕ	TAPE/BOX			TAPE/REEL	
	A	W	Q'TY PCS	W	Q'TY PCS
4	305 mm max.	55 mm max.	2500	44	1700
5	305 mm max.	55 mm max.	2000	44	1300
6	305 mm max.	55 mm max.	1500	44	1000
8	305 mm max.	55 mm max.	1000	44	750
10	305 mm max.	65 mm max.	600	44	500



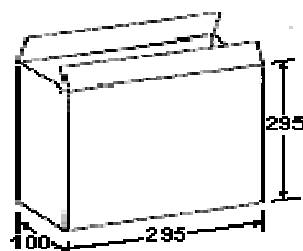
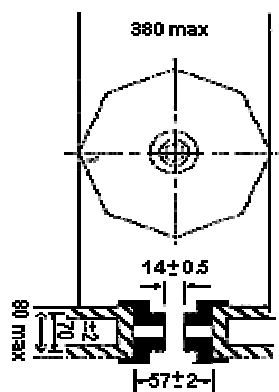
Radial lead type Formed and Cut Dimensions :

Code	Method	Dimension (mm)			Shape
		$\varnothing D$	F	P	
C	Cut Only	4	1.5	15	
		5	2	2	
		6	2.5	2.5	
		8	3.5	3.5	
		10	5	5	
		13	5	5	
		16	7.5	7.5	
		18	7.7	7.5	
F	Formed and Cut	4	5	1.5	
		5	5	2	
		6	5	2.5	
		8	5	3.5	

Axial lead type Tapping Dimensions :

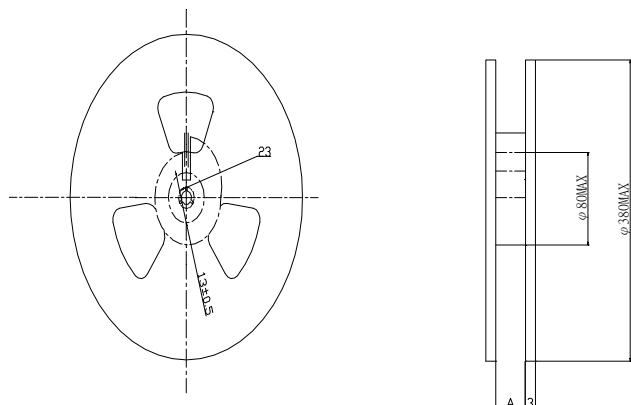


Symbol	Dimension (mm)
D	6, 8, 10, 13
L	13~16
d	0,5,0.
p	10
w	63
g	0.6 max.
L1-L2	1.0 max.
Z	1.2 max.
t	3.2 min (Lead ends shall not extend beyond the tape.)
T	6.0±1.0



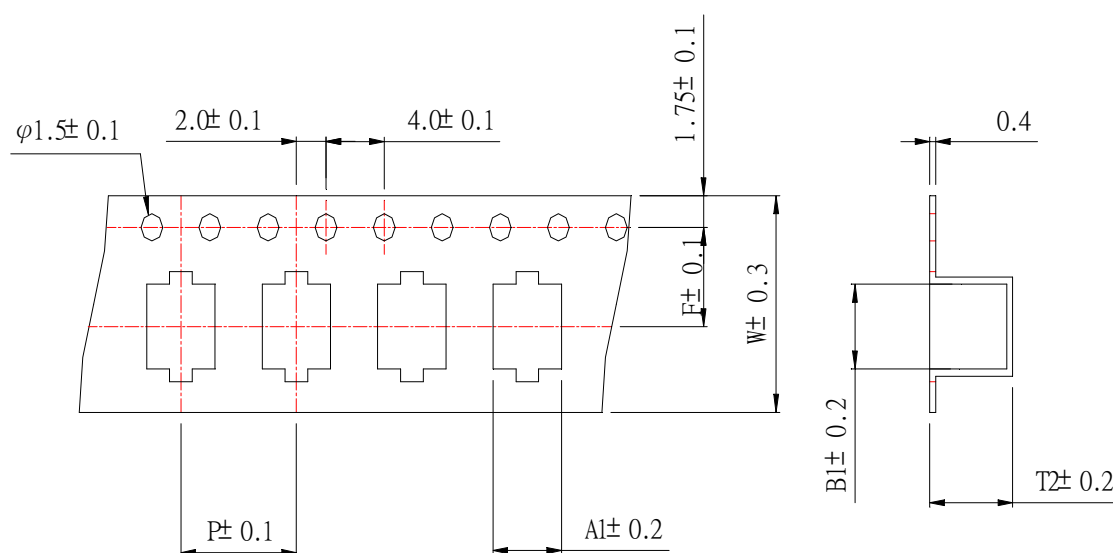
Diameter ϕ	BULK	TAPE/REEL
	Q'TY PCS	Q'TY PCS
6	1000	1500
8	500	1000
10	300	600
13	200	400

Tapping spec. for SMD electrolytic capacitors :



ϕ D	Q'ty / Reel
3-4x4.5-5.3	2,000pcs
5-6 x4.5-5.3	1,000pcs
6.3x7.7	1,000pcs
8x6.5	1,000pcs
8x10	500pcs
10x10	500pcs
12.5x13.5	200pcs
12.5x16	150pcs
16x16.5	125pcs

ϕ D	3-4	5	6.3	8x6.5	8x10	10	12.5	16
A	14	14	18	18	26	26	34	46



ϕD	3-4x4.5-5.3	5x4.5-5.3	6.3x4.5-5.3	6.3x7.7	8x6.5	8x10	10x10	12.5x13.5	12.5x16	16x16.5
W	12.0	12.0	16.0	16.0	16.0	24.0	24.0	32.0	32	44
P	8.0	12.0	12.0	12.0	12.0	16	16	24	24	28
F	5.5	5.5	7.5	7.5	7.5	11.5	11.5	14.2	14.2	20.2
A_1	5.0	6.0	7.0	7.0	8.7	8.7	10.7	13.4	13.4	17.5
B_1	5.0	6.0	7.0	7.0	8.7	8.7	10.7	13.4	13.4	17.5
T_2	5.8	5.8	5.8	8.3	6.8	11.0	11.0	14.0	17.5	17.5