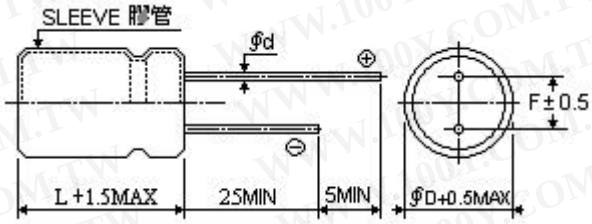
CODE	YOUR			NO	1000412007
	OUR	LZR332M0JG26VR6HTAAA		DATE	Apr.12.2011
SERIES		LZ	TYPE	POLARITY	
RATED VALUE		3300 μF 6.3 WV		SAFETY VENT	≧6.3 φ



DIMENSION （mm）			
φD	10	L	26
φd	0.6	F	5.0

Item	Characteristics				
Operation Temperature Range	－ 40 ℃～＋ 105 ℃				
Capacitance Tolerance	－ 20 %～＋ 20 % (M)				
Surge Voltage (SV)	8 VDC				
Leakage Current (LC)	≦ 207.9 μA 3 minutes				
Dissipation Factor (DF ，tan δ)	≦ 0.26 120 Hz 25 ℃				
E.S.R.	≦ Ω 120 Hz 25 ℃				
Ripple Current (RC)	≦ 2500 mA 100K Hz 105 ℃				
Impedance (Z)	≦ 0.014 Ω 100K Hz 25 ℃				
Low Temperature Stability	Impedance Ratio At 120Hz				
	Z -25 ℃ / Z + 25 ℃	3 MAX			
	Z -40 ℃ / Z + 25 ℃	6 MAX			
Load Life	After 3000 Hrs At 105 ℃				
	Capacitance Change	≦± 25 % of initial value			
	D.F. (tan δ)	≦ 200 % of initial specified value			
	Leakage Current	≦ initial specified value			
	Out Look	Should be without any change			
Shelf Life	After 1000 Hrs At 105 ℃				
	Capacitance Change	≦± 20 % of initial value			
	D.F. (tan δ)	≦ 200 % of initial specified value			
	Leakage Current	≦ 200 % of initial specified value			
	Out Look	Should be without any change			
Terminal Strength	Pull Test	1.0 Kg 10 sec ±1			
	Bend Test	0.5 Kg 2 cycle			
Soldering	245 ± 5 ℃	Soldering must covered more than 90%			
	2.5 ±0. 5 sec				

TEST FREQ : 120Hz	TEST TEMP : 25℃	REFERENCE STANDARD: JIS C5101-4

APPROVER	CHECKER	DESIGNER

編碼原則 PART NUMBER

SN	R	102	M	1C	G	21	V	R	6	HM	AAA
系列 SERIES	型式 TYPE& FORMING	容量 CAPACITANCE (μF)	級數 CAP TOLERANCE	電壓 VOLTAGE (WV)	直徑 CASE SIZE (ϕD)	長度 CASE SIZE (L)	防爆 VENT	迫緊型式 RUBBER	端子線 LEAD WIRE	膠管 RUBBER TUBE	加工型式 PROCESSING MODELLING

Series
LE
LT
LR
LZ
LL
ZL
LS
LH
HS
HK
HG
SN
HT
SP
LB
BL
HR
SU
SS
SH
NP
NK
BP
LA
HC
EC
HL
ML

TYPE	Code
Radial	R
Radial Taping	P
Lead Cut	C
Lead Snap in	Y
Lead Forming Cut	F
Snap in	S
Axial	A
Lead forming	B
Bending cut	L

CAP. (μF)	Code
0.1	0R1
0.22	R22
0.33	R33
0.47	R47
1	010
2.2	2R2
3.3	3R3
4.7	4R7
6.8	6R8
10	100
22	220
33	330
47	470
100	101
220	221
330	331
470	471
1000	102
1500	152
2200	222
3300	332
4700	472
10000	103
15000	153

TOLERANCE (%)	Code
+20	M
-20	
+20	V
-10	
+10	K
-10	
+50	T
-10	
+20	R
-0	
+5	A
-5	
+20	H
-5	

Voltage (WV)	Code
4	0G
6.3	0J
10	1A
16	1C
25	1E
30	1F
35	1V
40	1G
50	1H
63	1J
75	1P
80	1K
100	2A
120	2T
160	2C
180	2K
200	2D
220	2L
250	2E
300	2F
315	2X
330	2Y
350	2V
400	2G
420	2S
450	2W
500	2H

ϕD (mm)	Code
3	B
4	C
5	D
6	W
6.3	E
8	F
10	G
11	I
12.5	H
13	J
16	K
18	L
20	M
22	N
25	O
30	P
35	Q
40	R
51	V

Model	Code
NO VENT	A
VENT	V
	X

Model	code
Flat Rubber	R
Rubber Stand-off	M
Snap-in	A

Size (mm)	code
0.45	4
0.5	5
0.6	6
0.8	8
1.0	1
Snap-in	A
Screw	B

Code Name	Material
HM	PVC
HT	PET

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

SERIES	LZ	Reference standard	JIS C5101-4

1.Scope

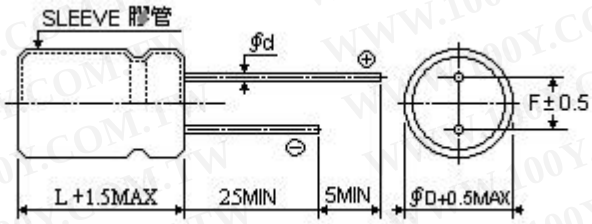
This specification applies to aluminum electrolytic capacitor, used in electronic equipment.

Type : Radial

2. Electrical characteristics

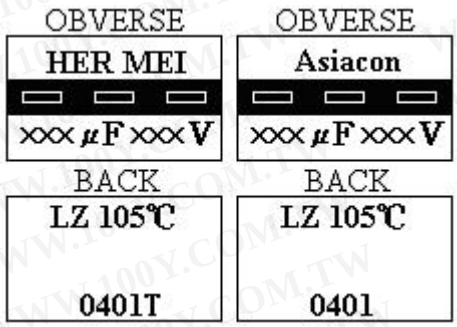
(A)Operating temperature range	:	- 40 ~ +105℃
(B)Capacitance tolerance	:	±20%(M) 25℃ 120Hz
(C)Capacitance (CAP)	:	27 μF ~ 10000 μF
(D)Rated working voltage (WV)	:	DC 6.3 ~ 25V
(E)Surge voltage (SV)	:	Values in Table 1 (P.4)
(F)Leakage current (LC)	:	Values in Table 2 (P.4) or less
(G)Dissipation Factor (DF, tan δ)	:	Values in Table 3 (P.4) or less
(H)Low temperature stability	:	Values in Table 4 (P.4) or less

3. Dimensions and materials



φD	4	5	6.3	8	10	13	16	18
φd	L=7 0.45,L>7 0.5			0.5	0.6		0.8	
F	1.5	2.0	2.5	3.5	5.0		7.5	
8×20 φd=0.6 13×31 φd=0.8								

4. Marking



←←Brand

←←Polarity of the terminals

←←Capacitance and Rated voltage

←←Series and Maximal operating temperature

←←Date code, (T)Representatives PET Marking,if not (T) Representatives PVC Marking

5. Load life test

After life test with rated ripple current at 105℃ conditions stated in the table below, the capacitors shall meet the following requirements.

Capacitance Change	Within ±25% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not more than the specified value
Life Time	φD≦8=2000hrs φD≧10=3000hrs

6.Shelf life test

After applying no rated voltage for 1000hrs at 105℃,

The capacitors shall meet the following requirements.

Capacitance Change	Within ±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not more than 200% of the specified value

SERIES	LZ	Reference standard	JIS C5101-4

7.Low temperature storage test

The capacitor without rated voltage at the lowest operation temperature 16 hours, after two hours in room temperature, should do final measurements, the values are as following :

Capacitance Change	≦ ± 10% of initial value
Dissipation Factor	≦ initial specified value
Leakage Current	≦ initial specified value

8.Lead strength

(A) Tensile strength:

φ d	≦0.5	0.6	0.8	1.0
Lead(Kg)	0.5	1.0		2.5

The capacitor shall withstand the constant tensile force specified between the body and each lead for 10 seconds without either mechanically or electrically.

(B) Bending strength:

φ d	≦0.5	0.6	0.8	1.0
Lead(Kg)	0.25	0.5		1.0

With the capacitor in a vertical position apply the load specified axially to each lead. the capacitor shall be rotated slowly from the vertical to the horizontal position. Back to the vertical position. the 90°in the opposite direction and back the original position. perormance of capacitor shall not have changed and leads shall be undamaged.

9.Solderability test

Capacitor lead wire dipping in flax, and then dip in 245℃±5℃, solder liquid for 2.5±0.5 seconds, the substance is above the liquid solder 2mm, the dipping lead must be adherent 90% fresh tin at least.

10.Resistance to soldering heat

Put capacitor lead wire to dip 260℃±5℃ in solder liquor away the body 2mm, after 10±1 seconds taken out, after two hours in room temperature, should do final measurements, the values are following:

Capacitance Change	≦ ± 10% of initial value
Dissipation Factor	≦ initial specified value
Leakage Current	≦ initial specified value
Visual	No damage

11.Surge test

The capacitor shall be applied the surge voltage connected with the 1 kΩ resistor in room temperature, and shall be applied the surge voltage 1000 cycle, each for 30 seconds charge and 5 minutes 30 seconds discharge, the final test values should be as following:

Capacitance Change	≦ ± 10% of initial value
Dissipation Factor	≦ initial specified value
Leakage Current	≦ initial specified value
Visual	No damage

12.Safety vent

(A)Test condition (DC method)

Reverse voltage shall be applied. then current is as below:

Diameter ≦ 22.4 mm 1 A	Diameter > 22.4 mm 10 A DC.

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

SERIES	LZ	Reference standard	JIS C5101-4

(B)Criteria

(a) Safety vent shall be operated.

(b) Emission of flame shall not be found before and after venting.

(c) Terminal, lead wire, metal chip and so on shall not be flown apart and case shall not be separated before and after venting.

(d) Sealing part and case shall not be separated before and after venting.

(e) Protrude dimension of element is 5mm max. from vent.

Multiplier for ripple current

Frequency coefficient

Frequency		120	1K	10K	100K
Coefficient	27～33 μF	0.40	0.60	0.80	1.00
	39～330 μF	0.50	0.70	0.90	1.00
	470～1000 μF	0.60	0.80	0.93	1.00
	1200～10000 μF	0.70	0.85	0.96	1.00

Table 1

Surge voltage

Rated Voltage	6.3	10	16	25
Surge Voltage	8	13	20	32

Table 2

Leakage current (25℃)

I≦0.01CV or 3 μA whichever is greater (After 3 minutes application of rated voltage)
I：Leakage Current(μA) C：Rated Capacitance(μF) V：Rated Voltage(V)

Table 3

Dissipation Factor (25℃, 120Hz)

Rated Voltage	6.3	10	16	25
tan δ	0.22	0.19	0.16	0.14

When rated capacitance is over 1000 μF，tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.

Table 4

Low Temperature Stability (120Hz)

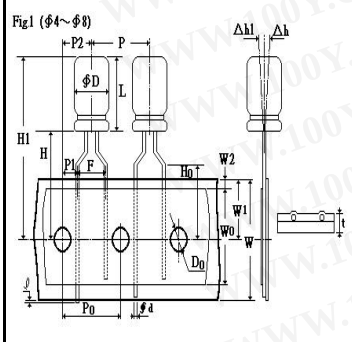
Rated Voltage	6.3	10	16	25
Z(-25℃)/Z(+25℃)	3	3	2	2
Z(-40℃)/Z(+25℃)	6	6	4	4

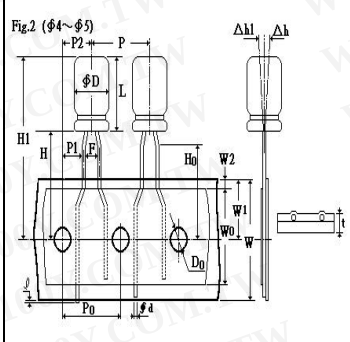
ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

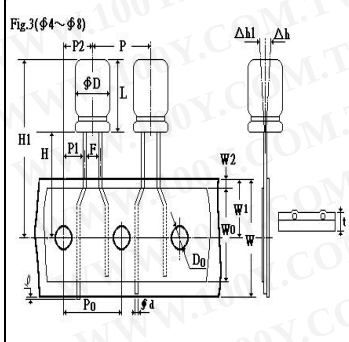
SERIES	LZ	Reference standard	JIS C5101-4

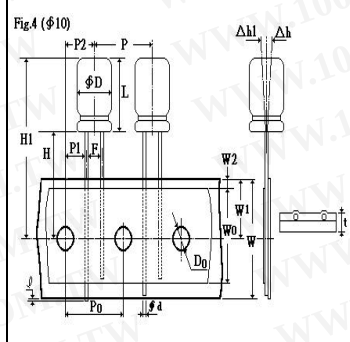
■ TAPING SPECIFICATIONS ■ DIMENSIONS

Item	Symbol	Case Size							Tolerance	Remark
		4×7	5×7	6.3×7	5φ~8φ			10φ		
Diameter of lead	φd	0.45			0.5 ~ 0.6			0.6	±0.05	
Height of body	L	8.0			21.5			31.5	Max.	
Distance from center to center of next body	P	12.7							±1.0	
Distance from center to center of next driving hole	P0	12.7							±0.2	
Distance between center of driving hole and lead	P1	3.85							±0.7	Fig.1 Fig.4
		5.35	5.10	-	5.1	-	-	-		Fig.2
		5.60	5.35	5.10	5.35	5.1	4.6	-		Fig.3
Distance between center of driving hole and body	P2	6.35							±1.0	
Pitch of lead	F	5.0							±0.3	Fig.1 Fig.4
		1.5	2.5	-	2.5	-	-	-		Fig.2,3 F1: 5.0+0.5-1.0
		-	2.0	2.5	2.0	2.5	3.5	-		
Width of mounting tape	W	18.0							±0.5	
Width adhesive tape	W0	12.5							Min.	
Distance between center of driving hole and mounting tape edge	W1	9.0							±0.5	
Max. allowable distance between mounting and adhesive tape edges	W2	1.5							Max.	
Distance between center of driving hole and bottom of body	H	18.5							±0.3	Fig.1.Fig.4 Fig.2 Fig.3
Distance between center of driving hole and clinch part of lead	H0	16.0						-	±0.5	Fig.1.Fig.2
Distance between center of driving hole and top of body	H1	27.5			32.5			50.0	Max.	
Diameter of driving hole	D0	4.0							±0.3	
Protrusion of lead	ℓ	0.0							Max.	
Adhesive and base tape thickness	T	0.6							±0.3	
Off alignment of body top	△h	0.0							±2.0	
Off alignment of body top	△h1	0.0							±1.0	









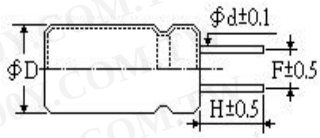
ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

SERIES	LZ	Reference standard	JIS C5101-4

■ LEAD CUTTING FORMING SPECIFICATIONS

Symbol：C

Lead cut　4φ～25φ

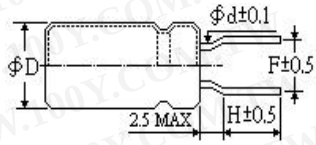


Unit : mm

φD	4	5	6.3	8	10	13	16	18	20	22	25
φd	0.45	0.5			0.6		0.8		0.8		1.0
F	1.5	2.5	2.5	3.5	5.0		7.5		10		11±1.0

Symbol：F

Lead form cut　4φ～8φ

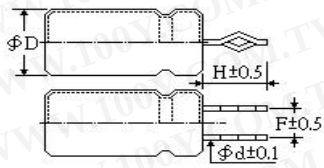


Unit : mm

φD	4	5	6.3	8
φd	0.45	0.5		
F	5.0			

Symbol：Y

Snap in cut　5φ～18φ

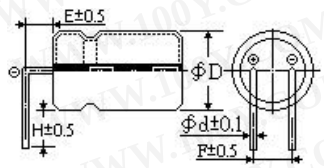


Unit : mm

φD	5	6.3	8	10	13	16	18
φd	0.5			0.6		0.8	
F	2.5	2.5	3.5	5.0		7.5	

Symbol：L

Bending cut　8φ～22φ



Unit : mm

φD	8	10	13	16	18	20	22
φd	0.5	0.6		0.8		0.8	
F	3.5	5.0		7.5		10	

■ PACKAGING SPECIFICATION

● Please note the order quantity must be in multiples of the minimum quantity.　個(pcs)

SIZE			BULK				TAPING MINIMUM QUANTITY
			QUANTITY PER VINYL BAG		MINIMUM QUANTITY		
			LONG LEAD	LEAD FORMING	LONG LEAD	LEAD FORMING	
LEAD WIRE TYPE	4φ	5～7L	1000	1000	14000	5L：40000　7L：35000	2000
	5φ	5～7L	1000	1000	5L：14000　7L：12000	5L：35000　7L：30000	2000
		11L			10000	20000	
	6.3φ	5～7L	1000	1000	10000	20000	1500
		11L			8000	14000	
	8φ	7L	1000	1000	8000	12000	1000
		9～12L	500　9L：1000	500　9L：1000	5000　9L：8000	7500　9L：12000	
		14L～	500	500	5000　16L：4000　20L：3000	14L：7000　16L：6000　20L：5000	1200
	10φ	10～17L	500	500	4000　13～14L：3500 15～17L：3000	13L：5000　16L：4000　17L：3500	800
		21L	200	200	2400	3000	
		23～30L			2000　30L：1600	24L：2800　25~26L：2400 30L：2000	
	13φ	13～21L	200	200	13～16L：2000　21L：1600	13L：2800　16L：2400　21L：2000	-
		26～36L	100	100	26L：1200　31L：1000 36L：800	26L：1400　31L：1200　36L：1000	
	16φ	16～21L	100	100	16L：1200　21L：1000	1400　21L：1200	
		25～26L			800	1000	
		30～36L			32L：700　30L、35L：600	700	
		40L			500	500	
	18φ	15～21L	100	100	15～18L：1000　21L：800	15～18L：1000　21L：800	
		25～26L			600	800	
		32～36L			500	32L：500　35～36L：400	
		38～41L			400	400	
	20φ	25～35L	100	100	25L：500　35L：400	25L：500　35L：400	
	22φ	25～26L	50	50	400	400	
		28～40L			28L、35L：300　30L、40L：250	28L~30L：250　40L：200	
	25φ	40~45L	50	50	40L：200　45L：150	45L：150	