

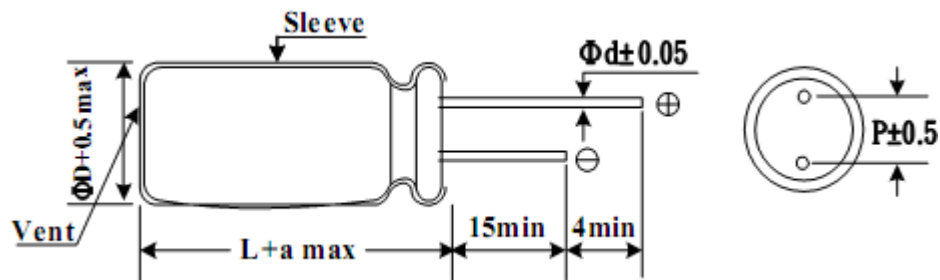
## High Temperature Aluminum Electrolytic Capacitor

### Features

- Miniature size and long life
- Radial leads, cylindrical aluminum case
- High quality, high reliability, high CV
- Lifetime: 2000 hours at 105°C



### Dimensions

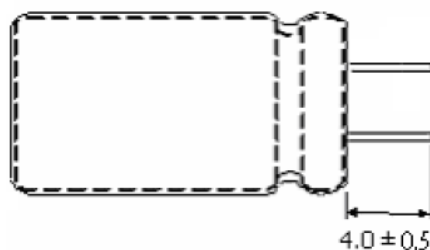


Unit: mm

$\phi D$	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
$\phi d$	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
L	Refer to Case Size Table							

### Lead Process

S4: Straight cut lead with 4.0+/-0.5mm



# High Temperature Aluminum Electrolytic Capacitor

## THT Series

### Specification

Description	Value																Conditions
Operation Temperature Range	-40 ~+105°C						-25 ~+105°C										
Rate Voltage Range	6.3~100VDC						160~450VDC					500VDC					
Rated Capacitance Range	1.0~22000uF						1.0~470uF					2.2~82uF					
Capacitance Tolerance	±20%																at 120Hz, 20 °C
Max. Leakage current at 20°C	I=0.01 CV or 3 μA, whichever is greater						I =0.03 CV +10 μA					I =0.04 CV +100 μA					After applied rated voltage for 2 min.
Working Voltage Range (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	420	450	500	
Surge Voltage (V)	8	13	20	32	44	63	79	125	200	250	300	400	450	470	500	550	
Max. Dissipation Factor tan δ *	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.10	0.15	0.15	0.15	0.20	0.20	0.20	0.20	0.25	at 120Hz, 20 °C
Low Temperature Stability Impedance Ratio at 120Hz	4	3	2	2	2	2	2	2	4	4	4	4	4	4	4	6	Z(-25°C)/Z(+20°C)
	8	6	4	3	3	3	3	3	-	-	-	-	-	-	-	-	Z(-40°C)/Z(+20°C)
Endurance	Cap. Change	Within ±20% of initial value															After applied rated voltage 2000 hours at 105°C
	Dissipation Factor	200% or less of initial specified value															
	Leakage Current	Initial specified value or less															
Shelf Life	The capacitance shall meet the same requirement as endurance																After leaving capacitors without load at 1000 hours 105°C

\*Note: when nominal capacitance is over 1000uF, tan δ shall be added 0.02 to the listed value with increase of every 1000uF.

### Multiplier For Ripple Current

Rated Voltage	Capacitance Range	120	300	1K	10K
6.3~100 V	1.0~68 uF	1.0	1.30	1.57	2.00
	100~470 uF	1.0	1.23	1.34	1.50
	680~22000 uF	1.0	1.10	1.13	1.15
160~450 V	1.0~470 uF	1.0	1.25	1.40	1.60
500 V	2.2~82 uF	1.0	1.05	1.10	1.15

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## THT Series

### Case Size ( $\phi D \times L$ (mm)) & Rated Ripple Current (RC(mA/rms)120Hz,105°C)

Capacitance ( $\mu F$ )	Rated Voltage							
	6.3(8)		10(13)		16(20)		25(32)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
22							5x11	60
33					5x11	70	5x11	75
47			5x11	75	5x11	85	5x11	90
68			5x11	80	5x11	100	6.3x11	125
100	5x11	100	5x11	110	5x11	130	6.3x11	145
150	5x11	120	5x11	120	6.3x11	175	8x11	200
220	6.3x11	165	6.3x11	180	6.3x11	220	8x11	240
330	6.3x11	200	6.3x11	235	8x11	280	8x11	300
			8x11	255			10x12.5	355
470	6.3x11	230	6.3x11	250	8x11	375	8x15	420
			8x11	305			10x12.5	440
680	8x11	350	8x11	365	8x15	450	10x15	560
			10x12.5	420	10x12.5	480		
1000	8x15	445	8x15	480	10x15	640	10x20	740
	10x12.5	470	10x12.5	540			13x20	855
1500	10x15	600	10x20	800	10x20	830	13x20	920
2200	10x20	800	10x20	870	13x20	1050	13x25	1230
3300	13x20	1100	13x20	1100	13x25	1250	16x25	1500
4700	13x20	1180	13x25	1380	16x25	1650	16x32	1800
6800	13x25	1490	16x25	1700	16x32	1900	18x36	2050
10000	16x32	1830	16x36	1950	18x36	2070		
15000	16x36	2090	18x36	2180				
22000	18x40	2350						

# High Temperature Aluminum Electrolytic Capacitor

## THT Series

Capacitance ( $\mu$ F)	Rated Voltage							
	35(44)		50(63)		63(79)		100(125)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0			5x11	12	5x11	12	5x11	15
2.2			5x11	18	5x11	20	5x11	22
3.3			5x11	25	5x11	27	5x11	29
4.7			5x11	30	5x11	34	5x11	37
6.8			5x11	30	5x11	37	5x11	46
10	5x11	44	5x11	50	5x11	55	6.3x11	65
15	5x11	50	5x11	50	5x11	65	6.3x11	75
22	5x11	65	5x11	75	6.3x11	90	8x11	115
33	5x11	85	5x11	95	6.3x11	100	8x11	140
47	5x11	100	6.3x11	115	8x11	155	10x12.5	185
68	6.3x11	130	8x11	159	10x12.5	198	10x15	240
100	6.3x11	170	8x11	200	10x12.5	260	10x20	305
150	8x11	220	10x12.5	289	10x15	330	13x20	370
220	10x12.5	315	10x12.5	360	10x20	465	13x25	520
			10x15	415				
330	10x12.5	400	10x20	535	13x20	650	16x25	720
470	10x15	480	10x20	630	13x20	700	16x32	875
			13x20	730				
680	10x20	650	13x20	800	16x25	1000	16x36	1200
1000	13x20	900	13x25	1060	16x32	1200		
1500	13x25	1050	16x25	1300	16x36	1450		
2200	16x25	1370	16x36	1600	18x36	1650		
	16x26	1255	18x36	1530				
3300	16x36	1680	18x36	1780				
4700	18x36	1920						

# High Temperature Aluminum Electrolytic Capacitor

## THT Series

Capacitance ( $\mu$ F)	Rated Voltage							
	160(125)		200(250)		250(300)		350(400)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0	5x11	17	6.3x11	17	6.3x11	17	6.3x11	16
2.2	6.3x11	25	6.3x11	25	6.3x11	29	8x11	31
3.3	8x11	36	8x11	36	8x11	42	8x11	35
4.7	6.3x11	43	8x11	50	8x11	52	8x11	45
6.8	8x11	54	8x11	60	8x11	62		
10	8x11	70	10x12.5	80	10x12.5	80	10x15	80
15	10x12.5	90	10x15	110	10x15	110		
22	10x15	115	10x20	140	10x20	140	13x20	150
33	10x20	160	13x20	200	13x20	200	13x25	200
47	10x20	195	13x20	220	13x25	240	16x25	260
68	13x20	255	13x25	280	13x25	290		
100	13x25	350	16x25	350	16x25	380	18x32	400
150	16x25	435	16x32	480	16x32	420		
220	16x32	550	16x36	675	18x36	680		
			18x32	685				
330	18x36	800	18x36	750				
470	18x40	900						

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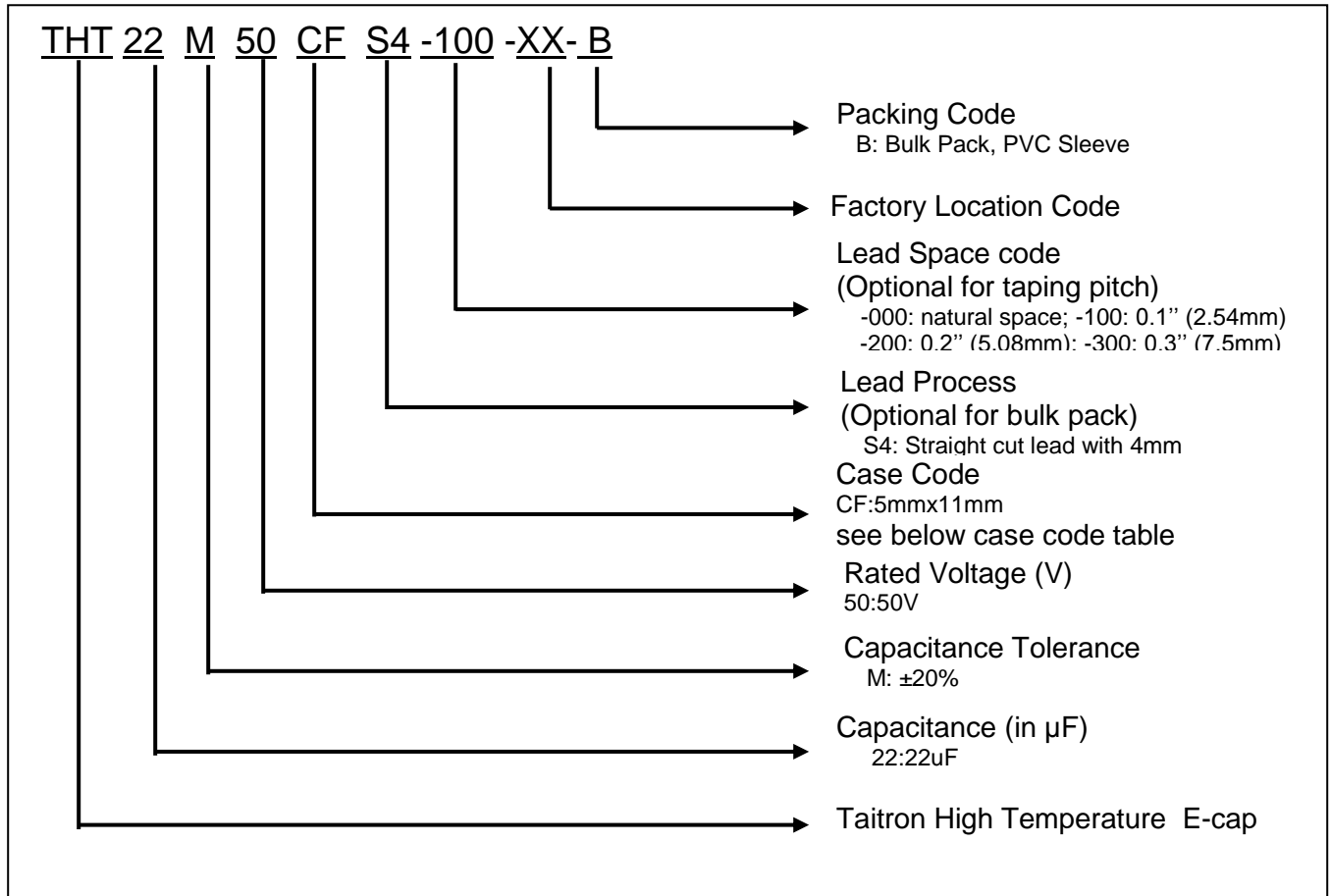
## THT Series

Capacitance ( $\mu$ F)	Rated Voltage							
	400(450)		420(470)		450(500)		500(550)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0	6.3x11	17	6.3x11	17	6.3x11	18		
					8x11	22		
2.2	8x11	31	8x11	29	8x11	30	8x11	25
					10x12.5	37		
3.3	8x11	35	8x11	34	8x15	42	8x16	30
					10x12.5	40		
4.7	8x11	45	10x12.5	55	10x12.5	52	8x16	34
	10x12.5	55					10x12.5	38
6.8	8x15	60	10x15	68	10x15	62	10x16	50
	10x12.5	65						
8.2							10x20	65
10	10x15	80	10x20	98	10x20	85	10x20	70
							13x20	85
15	10x20	100	13x20	130	13x20	120	13x25	100
22	13x20	150	13x25	155	13x25	150	13x25	115
					16x25	145	16x25	130
33	13x25	200	16x25	205	16x25	210	18x25	180
47	16x25	265	16x25	235	16x25	260	16x32	180
							18x30	230
68	16x32	410	16x32	400	18x32	370	18x32	250
	18x25	390	18x25	380			18x36	290
82							18x40	335
100	18x32	500	18x36	490	18x36	495		
120	18x32	520	18x40	530	18x40	565		
	18x36	550						
150	18x40	620	18x45	570	18x45	650		

# High Temperature Aluminum Electrolytic Capacitor

## THT Series

### How to Order



### Case code table:

Diameter (mm)	3	4	5	6	6.3	8	10	12	13	16	18	20	22	25	30	35	40	50	63	76
Code	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V

Length (mm)	5	7	7.5	8	9	11	11.5	12	12.5	13	15	16	17	19	20	21	24	25	25.5	26
Code	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V

Length (mm)	27	28	30	31.5	32	33	35	35.5	36	37	38	40	41	42	43	45	50	80	100	800
Code	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	PP	QQ	RR

# High Temperature Aluminum Electrolytic Capacitor

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## THT Series

### How to contact us

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