

### TH SERIES ■ HIGH TEMP., AUTOMOTIVE 125°C TYPE

#### KEY FEATURES



- ALUMINUM ELECTROLYTIC CAPACITOR • THT type
- Endurance: 125°C • 1 000 hours up to 3 000 hours
- Especially for applications with high ambient temperatures
- High reliability
- AEC-Q200 version available



#### SPECIFICATIONS

Items		Performance Characteristics									
Operating Temperature Range		-40 ~ +125°C				-25 ~ +125°C					
Rated Voltage Range	$V_R$	10 ~ 400V DC				450V DC					
Surge Voltage	$V_S$	$(V_R \leq 315V): V_S = 1.15 \cdot V_R$				$(V_R > 315V): V_S = 1.10 \cdot V_R$					
Capacitance Range	$C_R$	1 ~ 8200 $\mu$ F				1 ~ 47 $\mu$ F					
Cap. Tolerance	$\Delta C$	$\pm 20\%$ (120Hz • 20°C)									
Leakage Current (20°C • $V_R$ applied)	$I_{LEAK}$	10 ~ 100V				$\leq 0.01C_R \cdot V_R$ or 3 $\mu$ A (After 2 minutes)					
		160 ~ 450V	$C_R \cdot V_R \leq 1000$		$\leq 0.1C_R \cdot V_R + 40\mu$ A (After 1 minute)						
			$C_R \cdot V_R > 1000$		$\leq 0.04C_R \cdot V_R + 100\mu$ A (After 1 minute)						
[ $I_{LEAK}$ ( $\mu$ A) ; $C_R$ ( $\mu$ F) ; $V_R$ (V) ]											
Dissipation Factor % (20°C • 120Hz)	$\tan \delta$	$V_R$ (V DC)	10	16	25	35	50	63	80		
		$\tan \delta$ (%)	18	15	13	12	10	8	8		
		$V_R$ (V DC)	100	160	200	250	350	400	450		
		$\tan \delta$ (%)	7	12	12	12	15	15	20		
For $C_R > 1000\mu$ F, add 2% per every multiple 1000 $\mu$ F of rated capacitance value											
Low Temperature Characteristics at 120Hz	Z ratio max.	$V_R$ (V DC)	10	16 ~ 100	160 ~ 250	350 ~ 400	450				
		Z-25°C/Z+20°C	3	2	3	6	6				
		Z-40°C/Z+20°C	4	4	6	12	-				
		For capacitance > 1000 $\mu$ F									
		Z-25°C/Z+20°C	Add 0.5 for every multiple 1000 $\mu$ F of rated capacitance value								
Z-40°C/Z+20°C	Add 1 for every multiple 1000 $\mu$ F of rated capacitance value										
Lifetime Test											
Endurance 125°C ( $V_R$ & $I_R$ applied)	Test	1 000 hours				$\phi D < 8$ mm					
		2 000 hours				$\phi D = 8 \sim 10$ mm					
		3 000 hours				$\phi D \geq 13$ mm					
	$\Delta C/C_R$	$\leq \pm 20\%$ of initial measured value									
	$\tan \delta$	$\leq 300\%$ of initial specified value									
$I_{Leak}$	$\leq$ the initial specified value										
Shelf Life 125°C ( $V_R = 0$ )	Test	1 000 hours									
	$\Delta C/C_R$	$\leq \pm 20\%$ of initial measured value									
	$\tan \delta$	$\leq 300\%$ of initial specified value									
	$I_{Leak}$	$\leq$ the initial specified value									
Before measurement: Restore capacitor to 20°C, apply $V_R$ for 30 min according JIS-C-5101-4											

## STANDARD RATINGS

Part number shows bulk version with straight leads

V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>R</sub> • Max. Ripple Current +125°C • 120Hz (mA rms)	CapXon Part Number
10	47	5	11	92	TH470M010C110A <input type="checkbox"/>
	56	5	11	100	TH560M010C110A <input type="checkbox"/>
	100	5	11	130	TH101M010C110A <input type="checkbox"/>
	100	6.3	11	145	TH101M010E110A <input type="checkbox"/>
	120	6.3	11	160	TH121M010E110A <input type="checkbox"/>
	330	8	11.5	350	TH331M010F115A <input type="checkbox"/>
	330	10	12.5	410	TH331M010G125A <input type="checkbox"/>
	470	8	11.5	430	TH471M010F115A <input type="checkbox"/>
	470	8	16	500	TH471M010F160A <input type="checkbox"/>
	470	10	12.5	505	TH471M010G125A <input type="checkbox"/>
	470	10	16	525	TH471M010G160A <input type="checkbox"/>
	560	10	12.5	530	TH561M010G125A <input type="checkbox"/>
	680	8	20	640	TH681M010F200A <input type="checkbox"/>
	680	10	16	660	TH681M010G160A <input type="checkbox"/>
	1000	10	16	870	TH102M010G160A <input type="checkbox"/>
	1000	10	20	960	TH102M010G200A <input type="checkbox"/>
	1200	10	20	1000	TH122M010G200A <input type="checkbox"/>
1500	10	20	1120	TH152M010G200A <input type="checkbox"/>	
16	22	5	11	66	TH220M016C110A <input type="checkbox"/>
	33	6.3	11	91	TH330M016E110A <input type="checkbox"/>
	47	5	11	97	TH470M016C110A <input type="checkbox"/>
	47	6.3	11	110	TH470M016E110A <input type="checkbox"/>
	100	6.3	11	175	TH101M016E110A <input type="checkbox"/>
	100	8	11.5	206	TH101M016F115A <input type="checkbox"/>
	220	8	11.5	340	TH221M016F115A <input type="checkbox"/>
	220	10	12.5	400	TH221M016G125A <input type="checkbox"/>
	330	8	11.5	400	TH331M016F115A <input type="checkbox"/>
	330	8	16	460	TH331M016F160A <input type="checkbox"/>
	330	10	12.5	470	TH331M016G125A <input type="checkbox"/>
	330	10	16	525	TH331M016G160A <input type="checkbox"/>
	470	8	11.5	500	TH471M016F115A <input type="checkbox"/>
	470	8	20	640	TH471M016F200A <input type="checkbox"/>
	470	10	12.5	590	TH471M016G125A <input type="checkbox"/>
	470	10	16	650	TH471M016G160A <input type="checkbox"/>
	470	10	20	720	TH471M016G200A <input type="checkbox"/>
	680	10	20	760	TH681M016G200A <input type="checkbox"/>
	820	10	16	740	TH821M016G160A <input type="checkbox"/>
	820	10	25	900	TH821M016G250A <input type="checkbox"/>
	1000	10	20	860	TH102M016G200A <input type="checkbox"/>
1000	10	25	950	TH102M016G250A <input type="checkbox"/>	
1000	13	20	1000	TH102M016I200A <input type="checkbox"/>	

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See "PACKAGING INFORMATION" to taped or formed products.

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V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>R</sub> • Max. Ripple Current +125°C • 120Hz (mA rms)	CapXon Part Number
25	22	6.3	11	70	TH220M025E110A □
	33	5	11	88	TH330M025C110A □
	33	6.3	11	100	TH330M025E110A □
	47	5	11	97	TH470M025C110A □
	47	6.3	11	110	TH470M025E110A □
	47	8	11.5	130	TH470M025F115A □
	56	6.3	11	120	TH560M025E110A □
	100	8	11.5	210	TH101M025F115A □
	100	10	12.5	250	TH101M025G125A □
	120	8	11.5	220	TH121M025F115A □
	150	8	11.5	260	TH151M025F115A □
	180	8	11.5	290	TH181M025F115A □
	220	8	11.5	360	TH221M025F115A □
	220	8	16	415	TH221M025F160A □
	220	10	12.5	420	TH221M025G125A □
	220	10	16	470	TH221M025G160A □
	270	8	20	470	TH271M025F200A □
	270	10	12.5	435	TH271M025G125A □
	330	8	16	510	TH331M025F160A □
	330	10	12.5	520	TH331M025G125A □
	330	10	16	570	TH331M025G160A □
	330	10	20	631	TH331M025G200A □
	390	10	16	650	TH391M025G160A □
	470	8	20	620	TH471M025F200A □
	470	10	16	640	TH471M025G160A □
	470	10	20	700	TH471M025G200A □
	470	10	25	770	TH471M025G250A □
	470	13	20	810	TH471M025I200A □
	560	10	20	680	TH561M025G200A □
	560	10	25	750	TH561M025G250A □
	680	10	20	740	TH681M025G200A □
	1000	13	20	880	TH102M025I200A □
	1000	13	25	970	TH102M025I250A □
	1000	16	25	1100	TH102M025J250A □
	1200	10	20	1010	TH122M025G200A □
	1500	10	25	1220	TH152M025G250A □
	1800	13	20	1350	TH182M025I200A □
	2700	13	25	1710	TH272M025I250A □
	3300	13	30	2070	TH332M025I300A □
	5600	18	25	2730	TH562M025K250A □
6800	16	35.5	3300	TH682M025J355A □	
8200	16	40	3750	TH822M025J400A □	

□: Enter blank for Standard version

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V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>R</sub> • Max. Ripple Current +125°C • 120Hz (mA rms)	CapXon Part Number
35	22	5	11	72	TH220M035C110A <input type="checkbox"/>
	22	6.3	11	82	TH220M035E110A <input type="checkbox"/>
	33	8	11.5	108	TH330M035F115A <input type="checkbox"/>
	47	6.3	11	110	TH470M035E110A <input type="checkbox"/>
	47	8	11.5	130	TH470M035F115A <input type="checkbox"/>
	47	10	12.5	158	TH470M035G125A <input type="checkbox"/>
	56	6.3	11	130	TH560M035E110A <input type="checkbox"/>
	100	8	11.5	200	TH101M035F115A <input type="checkbox"/>
	100	10	12.5	230	TH101M035G125A <input type="checkbox"/>
	100	10	16	262	TH101M035G160A <input type="checkbox"/>
	120	8	11.5	300	TH121M035F115A <input type="checkbox"/>
	120	8	16	350	TH121M035F160A <input type="checkbox"/>
	150	10	12.5	360	TH151M035G125A <input type="checkbox"/>
	180	8	20	410	TH181M035F200A <input type="checkbox"/>
	180	10	12.5	380	TH181M035G125A <input type="checkbox"/>
	220	10	12.5	440	TH221M035G125A <input type="checkbox"/>
	220	10	16	490	TH221M035G160A <input type="checkbox"/>
	220	10	20	540	TH221M035G200A <input type="checkbox"/>
	270	10	16	500	TH271M035G160A <input type="checkbox"/>
	270	10	20	550	TH271M035G200A <input type="checkbox"/>
	330	10	16	560	TH331M035G160A <input type="checkbox"/>
	330	10	25	680	TH331M035G250A <input type="checkbox"/>
	330	13	20	718	TH331M035I200A <input type="checkbox"/>
	390	10	20	590	TH391M035G200A <input type="checkbox"/>
	470	10	20	700	TH471M035G200A <input type="checkbox"/>
	470	13	20	810	TH471M035I200A <input type="checkbox"/>
	470	13	25	900	TH471M035I250A <input type="checkbox"/>
	560	10	20	580	TH561M035G200A <input type="checkbox"/>
	560	13	16	610	TH561M035I160A <input type="checkbox"/>
	680	10	20	800	TH681M035G200A <input type="checkbox"/>
	820	10	25	980	TH821M035G250A <input type="checkbox"/>
	1000	13	25	1140	TH102M035I250A <input type="checkbox"/>
	1000	16	25	1280	TH102M035J250A <input type="checkbox"/>
	1200	10	30	1290	TH122M035G300A <input type="checkbox"/>
	1500	13	25	1368	TH152M035I250A <input type="checkbox"/>
2200	13	30	1660	TH222M035I300A <input type="checkbox"/>	
2700	13	40	2350	TH272M035I400A <input type="checkbox"/>	
3300	16	31.5	2480	TH332M035J315A <input type="checkbox"/>	
3300	18	25	2400	TH332M035K250A <input type="checkbox"/>	
4700	16	40	3000	TH472M035J400A <input type="checkbox"/>	

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$V_R$ (V)	$C_R$ ( $\mu F$ )	$\phi D$ (mm)	L (mm)	$I_R$ • Max. Ripple Current +125°C • 120Hz (mA rms)	CapXon Part Number
50	2.2	8	11.5	25	TH2R2M050F115A <input type="checkbox"/>
	3.3	8	11.5	30	TH3R3M050F115A <input type="checkbox"/>
	4.7	5	11	32	TH4R7M050C110A <input type="checkbox"/>
	4.7	8	11.5	42.5	TH4R7M050F115A <input type="checkbox"/>
	10	5	11	42	TH100M050C110A <input type="checkbox"/>
	10	6.3	11	48	TH100M050E110A <input type="checkbox"/>
	10	8	11.5	56	TH100M050F115A <input type="checkbox"/>
	22	5	11	66	TH220M050C110A <input type="checkbox"/>
	22	6.3	11	75	TH220M050E110A <input type="checkbox"/>
	22	8	11.5	86	TH220M050F115A <input type="checkbox"/>
	33	8	11.5	118	TH330M050F115A <input type="checkbox"/>
	47	6.3	11	120	TH470M050E110A <input type="checkbox"/>
	47	8	11.5	140	TH470M050F115A <input type="checkbox"/>
	47	10	12.5	164	TH470M050G125A <input type="checkbox"/>
	56	8	11.5	150	TH560M050F115A <input type="checkbox"/>
	68	8	11.5	160	TH680M050F115A <input type="checkbox"/>
	82	8	11.5	170	TH820M050F115A <input type="checkbox"/>
	100	10	12.5	230	TH101M050G125A <input type="checkbox"/>
	100	10	16	250	TH101M050G160A <input type="checkbox"/>
	100	10	20	277	TH101M050G200A <input type="checkbox"/>
	120	10	16	290	TH121M050G160A <input type="checkbox"/>
	180	10	20	400	TH181M050G200A <input type="checkbox"/>
	220	10	20	510	TH221M050G200A <input type="checkbox"/>
	220	10	25	560	TH221M050G250A <input type="checkbox"/>
	220	13	20	587	TH221M050I200A <input type="checkbox"/>
	270	10	20	610	TH271M050G200A <input type="checkbox"/>
	330	10	20	700	TH331M050G200A <input type="checkbox"/>
	330	13	20	810	TH331M050I200A <input type="checkbox"/>
	330	13	25	900	TH331M050I250A <input type="checkbox"/>
	470	13	25	900	TH471M050I250A <input type="checkbox"/>
	470	16	25	1000	TH471M050J250A <input type="checkbox"/>
	560	10	30	950	TH561M050G300A <input type="checkbox"/>
	680	13	25	1050	TH681M050I250A <input type="checkbox"/>
1000	13	30	1390	TH102M050I300A <input type="checkbox"/>	
1200	13	35	1510	TH122M050I350A <input type="checkbox"/>	
1200	18	20	1450	TH122M050K200A <input type="checkbox"/>	
1500	13	40	1960	TH152M050I400A <input type="checkbox"/>	
1800	18	25	1960	TH182M050K250A <input type="checkbox"/>	
2200	18	31.5	2500	TH222M050K315A <input type="checkbox"/>	
2700	18	35.5	2750	TH272M050K355A <input type="checkbox"/>	
3300	18	40	2950	TH332M050K400A <input type="checkbox"/>	

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V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>R</sub> • Max. Ripple Current +125°C • 120Hz (mA rms)	CapXon Part Number
63	4.7	6.3	11	38	TH4R7M063E110A
	10	8	11.5	58	TH100M063F115A
	22	8	11.5	93	TH220M063F115A
	33	8	11.5	115	TH330M063F115A
	33	10	12.5	132	TH330M063G125A
	47	10	12.5	155	TH470M063G125A
	47	10	16	172	TH470M063G160A
	100	10	16	260	TH101M063G160A
	180	10	20	400	TH181M063G200A
	220	10	25	520	TH221M063G250A
	220	13	25	595	TH221M063I250A
	330	13	25	880	TH331M063I250A
	330	16	25	1000	TH331M063J250A
	390	13	20	800	TH391M063I200A
	680	13	30	1290	TH681M063I300A
	820	13	35	1420	TH821M063I350A
	820	18	20	1360	TH821M063K200A
	1200	18	25	1620	TH122M063K250A
	1500	18	31.5	1980	TH152M063K315A
1800	16	40	2260	TH182M063J400A	
2200	18	40	2680	TH222M063K400A	
80	22	8	11.5	120	TH220M080F115A
	33	10	12.5	170	TH330M080G125A
	47	10	12.5	200	TH470M080G125A
	100	10	20	370	TH101M080G200A
	330	13	25	870	TH331M080I250A
	390	16	20	900	TH391M080J200A
	470	16	25	1010	TH471M080J250A
	560	13	35	1100	TH561M080I350A
	560	16	25	1060	TH561M080J250A
	560	18	20	1050	TH561M080K200A
680	16	31.5	1300	TH681M080J315A	
100	1	6.3	11	24	TH010M100E110A
	2.2	6.3	11	31	TH2R2M100E110A
	3.3	6.3	11	36	TH3R3M100E110A
	4.7	6.3	11	38	TH4R7M100E110A
	4.7	8	11.5	48	TH4R7M100F115A
	10	8	11.5	60	TH100M100F115A
	10	10	12.5	70	TH100M100G125A
	22	8	11.5	76	TH220M100F115A
	22	10	12.5	90	TH220M100G125A
	22	10	16	100	TH220M100G160A

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V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>R</sub> - Max. Ripple Current +125°C - 120Hz (mA rms)	CapXon Part Number
100	33	10	12.5	130	TH330M100G125A <input type="checkbox"/>
	33	10	16	140	TH330M100G160A <input type="checkbox"/>
	33	10	20	158	TH330M100G200A <input type="checkbox"/>
	47	10	16	150	TH470M100G160A <input type="checkbox"/>
	47	10	25	175	TH470M100G250A <input type="checkbox"/>
	47	13	20	185	TH470M100I200A <input type="checkbox"/>
	100	13	25	320	TH101M100I250A <input type="checkbox"/>
	100	16	25	350	TH101M100J250A <input type="checkbox"/>
	330	13	35	890	TH331M100I350A <input type="checkbox"/>
	330	16	25	860	TH331M100J250A <input type="checkbox"/>
	330	18	20	850	TH331M100K200A <input type="checkbox"/>
	390	13	40	1050	TH391M100I400A <input type="checkbox"/>
	390	16	31.5	1050	TH391M100J315A <input type="checkbox"/>
	560	18	31.5	1290	TH561M100K315A <input type="checkbox"/>
	680	18	35.5	1480	TH681M100K355A <input type="checkbox"/>
820	18	40	1850	TH821M100K400A <input type="checkbox"/>	
160	1	6.3	11	23	TH010M160E110A <input type="checkbox"/>
	2.2	6.3	11	35	TH2R2M160E110A <input type="checkbox"/>
	3.3	6.3	11	37	TH3R3M160E110A <input type="checkbox"/>
	3.3	8	11.5	41	TH3R3M160F115A <input type="checkbox"/>
	4.7	8	11.5	52	TH4R7M160F115A <input type="checkbox"/>
	6.8	10	12.5	70	TH6R8M160G125A <input type="checkbox"/>
	10	8	11.5	70	TH100M160F115A <input type="checkbox"/>
	10	10	12.5	82	TH100M160G125A <input type="checkbox"/>
	22	10	16	115	TH220M160G160A <input type="checkbox"/>
	22	10	20	128	TH220M160G200A <input type="checkbox"/>
	33	13	20	200	TH330M160I200A <input type="checkbox"/>
	47	13	20	240	TH470M160I200A <input type="checkbox"/>
	47	13	25	260	TH470M160I250A <input type="checkbox"/>
	82	10	30	340	TH820M160G300A <input type="checkbox"/>
	100	10	35	380	TH101M160G350A <input type="checkbox"/>
	100	13	25	390	TH101M160I250A <input type="checkbox"/>
	100	16	25	430	TH101M160J250A <input type="checkbox"/>
	120	10	40	450	TH121M160G400A <input type="checkbox"/>
	150	13	30	500	TH151M160I300A <input type="checkbox"/>
	180	13	35	600	TH181M160I350A <input type="checkbox"/>
180	18	20	550	TH181M160K200A <input type="checkbox"/>	
220	16	31.5	690	TH221M160J315A <input type="checkbox"/>	
330	18	35.5	900	TH331M160K355A <input type="checkbox"/>	
200	1	6.3	11	23	TH010M200E110A <input type="checkbox"/>
	2.2	6.3	11	35	TH2R2M200E110A <input type="checkbox"/>
	3.3	8	11.5	48	TH3R3M200F115A <input type="checkbox"/>
	4.7	8	11.5	50	TH4R7M200F115A <input type="checkbox"/>

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200	4.7	10	12.5	60	TH4R7M200G125A <input type="checkbox"/>
	6.8	10	12.5	70	TH6R8M200G125A <input type="checkbox"/>
	10	10	12.5	80	TH100M200G125A <input type="checkbox"/>
	22	10	20	140	TH220M200G200A <input type="checkbox"/>
	22	10	25	150	TH220M200G250A <input type="checkbox"/>
	22	13	20	160	TH220M200I200A <input type="checkbox"/>
	33	13	20	200	TH330M200I200A <input type="checkbox"/>
	33	13	25	220	TH330M200I250A <input type="checkbox"/>
	47	13	20	245	TH470M200I200A <input type="checkbox"/>
	47	13	25	270	TH470M200I250A <input type="checkbox"/>
	47	16	25	300	TH470M200J250A <input type="checkbox"/>
	56	13	20	260	TH560M200I200A <input type="checkbox"/>
	82	13	25	360	TH820M200I250A <input type="checkbox"/>
	100	13	30	430	TH101M200I300A <input type="checkbox"/>
	100	16	20	400	TH101M200J200A <input type="checkbox"/>
	100	16	25	440	TH101M200J250A <input type="checkbox"/>
	100	16	31.5	490	TH101M200J315A <input type="checkbox"/>
	150	13	40	600	TH151M200I400A <input type="checkbox"/>
	150	16	25	530	TH151M200J250A <input type="checkbox"/>
	180	18	25	650	TH181M200K250A <input type="checkbox"/>
220	18	31.5	850	TH221M200K315A <input type="checkbox"/>	
330	18	35.5	1100	TH331M200K355A <input type="checkbox"/>	
250	1	6.3	11	23	TH010M250E110A <input type="checkbox"/>
	2.2	6.3	11	35	TH2R2M250E110A <input type="checkbox"/>
	2.2	8	11.5	40	TH2R2M250F115A <input type="checkbox"/>
	3.3	8	11.5	50	TH3R3M250F115A <input type="checkbox"/>
	3.3	10	12.5	53	TH3R3M250G125A <input type="checkbox"/>
	4.7	10	12.5	60	TH4R7M250G125A <input type="checkbox"/>
	4.7	10	16	68	TH4R7M250G160A <input type="checkbox"/>
	6.8	10	16	75	TH6R8M250G160A <input type="checkbox"/>
	10	10	16	83	TH100M250G160A <input type="checkbox"/>
	22	13	20	160	TH220M250I200A <input type="checkbox"/>
	22	13	25	170	TH220M250I250A <input type="checkbox"/>
	33	13	25	220	TH330M250I250A <input type="checkbox"/>
	33	16	25	240	TH330M250J250A <input type="checkbox"/>
	39	10	30	230	TH390M250G300A <input type="checkbox"/>
	47	10	35	280	TH470M250G350A <input type="checkbox"/>
	47	16	25	300	TH470M250J250A <input type="checkbox"/>
	47	16	31.5	330	TH470M250J315A <input type="checkbox"/>
	56	10	40	300	TH560M250G400A <input type="checkbox"/>
	68	13	30	330	TH680M250I300A <input type="checkbox"/>
	82	13	35	380	TH820M250I350A <input type="checkbox"/>
82	18	20	350	TH820M250K200A <input type="checkbox"/>	

: Enter **blank** for Standard version

: Enter **X** for AEC-Q200 version

See "PACKAGING INFORMATION" to taped or formed products.



**STANDARD RATINGS**

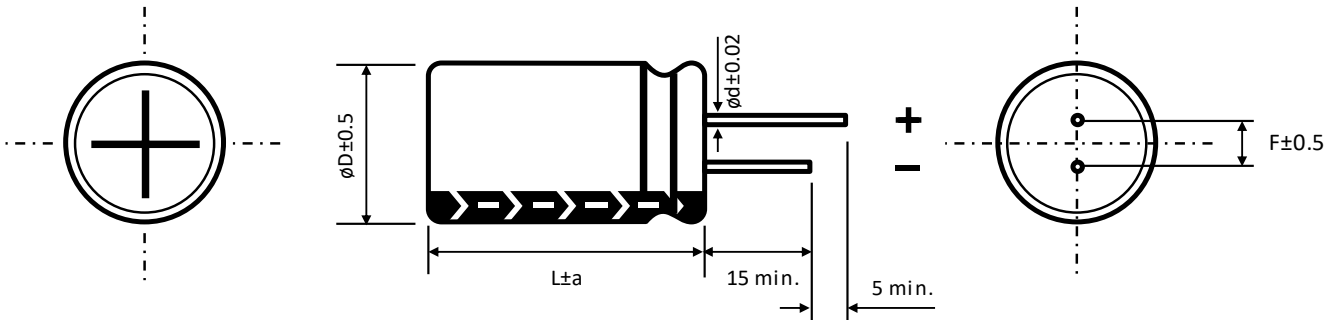
Part number shows bulk version with straight leads

$V_R$ (V)	$C_R$ ( $\mu F$ )	$\phi D$ (mm)	L (mm)	$I_R$ - Max. Ripple Current +125°C - 120Hz (mA rms)	CapXon Part Number
250	100	13	40	490	TH101M250I400A <input type="checkbox"/>
	120	18	25	460	TH121M250K250A <input type="checkbox"/>
	220	18	35.5	850	TH221M250K355A <input type="checkbox"/>
350	1	8	11.5	26	TH010M350F115A <input type="checkbox"/>
	2.2	8	11.5	40	TH2R2M350F115A <input type="checkbox"/>
	2.2	10	12.5	47	TH2R2M350G125A <input type="checkbox"/>
	3.3	10	12.5	55	TH3R3M350G125A <input type="checkbox"/>
	3.3	10	16	60	TH3R3M350G160A <input type="checkbox"/>
	4.7	10	16	68	TH4R7M350G160A <input type="checkbox"/>
	4.7	10	20	75	TH4R7M350G200A <input type="checkbox"/>
	5.6	10	20	78	TH5R6M350G200A <input type="checkbox"/>
	6.8	13	20	85	TH6R8M350I200A <input type="checkbox"/>
	10	10	25	105	TH100M350G250A <input type="checkbox"/>
	10	13	20	110	TH100M350I200A <input type="checkbox"/>
	22	13	25	180	TH220M350I250A <input type="checkbox"/>
	22	16	25	200	TH220M350J250A <input type="checkbox"/>
	27	10	30	180	TH270M350G300A <input type="checkbox"/>
	33	10	35	220	TH330M350G350A <input type="checkbox"/>
	33	16	25	230	TH330M350J250A <input type="checkbox"/>
	33	16	31.5	260	TH330M350J315A <input type="checkbox"/>
	47	13	30	280	TH470M350I300A <input type="checkbox"/>
	47	16	31.5	320	TH470M350J315A <input type="checkbox"/>
	47	16	35.5	340	TH470M350J355A <input type="checkbox"/>
	56	13	35	330	TH560M350I350A <input type="checkbox"/>
	56	16	25	320	TH560M350J250A <input type="checkbox"/>
	56	18	20	310	TH560M350K200A <input type="checkbox"/>
	68	13	40	390	TH680M350I400A <input type="checkbox"/>
400	1	10	12.5	30	TH010M400G125A <input type="checkbox"/>
	2.2	10	16	50	TH2R2M400G160A <input type="checkbox"/>
	3.3	10	16	60	TH3R3M400G160A <input type="checkbox"/>
	4.7	10	16	70	TH4R7M400G160A <input type="checkbox"/>
	4.7	10	20	80	TH4R7M400G200A <input type="checkbox"/>
	5.6	10	20	85	TH5R6M400G200A <input type="checkbox"/>
	6.8	13	20	90	TH6R8M400I200A <input type="checkbox"/>
	10	13	20	110	TH100M400I200A <input type="checkbox"/>
	22	13	25	180	TH220M400I250A <input type="checkbox"/>
	27	13	25	190	TH270M400I250A <input type="checkbox"/>
	33	16	20	220	TH330M400J200A <input type="checkbox"/>
	33	16	25	240	TH330M400J250A <input type="checkbox"/>
	47	16	25	290	TH470M400J250A <input type="checkbox"/>
	47	16	31.5	320	TH470M400J315A <input type="checkbox"/>

: Enter **blank** for Standard version

: Enter **X** for AEC-Q200 version

See "PACKAGING INFORMATION" to taped or formed products.

**DIMENSIONS** ▪ All dimensions in mm


$\phi D$	5	6.3	8		10	13	16	18
F	2	2.5	3.5		5	5	7.5	7.5
$\phi d$	0.5		L < 20	L ≥ 20	0.6		0.8	
			0.5	0.6				

a	$\phi D < 16$	$\phi D = 16$		$\phi D = 18$	
	1.5	L = 25 to 35.5	L < 25 and L ≥ 40	L = 25 to 31.5	L < 25 and L ≥ 35.5
	1.5	2	1.5	2	

**MULTIPLIER  $K_f$  for RIPPLE CURRENT vs. FREQUENCY**

$C_R$ ( $\mu F$ ) / Frequency (Hz)	50/60	100/120	400	1k	10k	50k ~ 100k
$C_R \leq 10$	0.8	1	1.3	1.45	1.65	1.7
$10 < C_R \leq 100$	0.8	1	1.23	1.36	1.48	1.53
$100 < C_R \leq 1000$	0.8	1	1.16	1.25	1.35	1.38
$1000 \leq C_R$	0.8	1	1.11	1.17	1.25	1.28

**PRECAUTIONS, GUIDELINES AND PACKAGING INFORMATION**

Unless otherwise agreed in individual specifications, all products are subject to our “General Precautions and Guidelines” as well as our “Packaging Information”. Please refer to the following links in the table.

<a href="#">General Precautions &amp; Guidelines</a>	<a href="#">Packaging Information</a>	<a href="#">3D Models</a>	<a href="#">Reliability Tests</a>



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