

Type TYSH 105°C Series

Key Features

- High temperature polarized aluminum foil electrolytic capacitors
- Snap-in PCB mounting
- Aluminum case with insulating sleeve
- 105°C temperature rating
- 2000 hours load life assured
- RoHS Compliant



TE Connectivity's snap-in aluminum electrolytic capacitors are designed for direct-soldering PCB mounting where board space is restricted.

The TYSH series offers an extended temperature range from -40°C to +105°C. with a wide capacitance range at voltages from 16 to 450Vd.c. plus a broad range of case sizes.

Suitable for general purpose and industrial filtering, bypassing, power supply coupling/decoupling, telecommunications and audio-video applications requiring reliability under more demanding conditions.

Characteristics - Electrical

													Test Conditions JIS C5101-4	
Operating Temp. Range	-40°C ~ +105°C											—		
Rated Voltage	DC 16 ~ 450V											105°C		
Capacitance	56 ~ 22000μF											105°C		
Capacitance Tolerance	±20%											120Hz, 20°C		
Leakage Current	I = 0.02CV or 1.5mA whichever is smaller (after 5 minutes)											C = rated capacitance (μF) V = rated DC working voltage (V) Temperature = 20°C		
Dissipation Factor (Tanδ)	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450	120Hz, 20°C
	Tanδ max	0.40	0.30	0.25	0.20	0.15	0.15	0.10*	0.10*	0.10*	0.15	0.15	0.15	
Low Temperature Characteristics	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450	120Hz
	Impedance Ratio													
	Z(-25°C) / Z(+20°C)	4	3	3	2	2	2	4	4	4	4	8	8	
Load Life Test	Z(-40°C) / Z(+20°C)	15	10	8	6	6	5	4	8	10	16	18	20	Specification satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2000 hrs at 105°C
	Test Time	2000 Hrs												
	Capacitance Change	Within ±20% of initial value												
	Dissipation Factor	Less than 200% of specified value												
Shelf Life Test	Leakage Current	Within specified value												Specifications satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements. (Refer to JIS C 5102)
	Test Time	1000 hrs												
	Capacitance Change	Within ±20% of initial value												
	Dissipation Factor	Less than 150% of specified value												
Ripple Current & Frequency Multipliers	Leakage Current	Within specified value												—
	Frequency (Hz)	60	120	500	1k	≥10k								
	VDC ≤ 100	0.92	1.00	1.13	1.19	1.20								
	VDC 160~250	0.81	1.00	1.32	1.45	1.50								
	VDC 350~450	0.77	1.00	1.30	1.41	1.43								

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Product Availability Chart

Capacitance		Rated Voltage (V.DC)											
		16				25				35			
µF	Code	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L
4700	478					22 x 25					25 x 25		
5600	568					22 x 25				22 x 35	25 x 30	30 x 25	
6800	688	22 x 25				22 x 30	25 x 25			22 x 40	25 x 35		
8200	828	22 x 25				22 x 35	25 x 30	30 x 25		22 x 50	25 x 40	30 x 30	35 x 25
10000	109	22 x 30	25 x 30			22 x 40	25 x 35				25 x 45	30 x 35	
12000	129	22 x 35	25 x 30	30 x 25		22 x 45	25 x 40	30 x 30	35 x 25		25 x 50	30 x 40	35 x 30
15000	159	22 x 40	25 x 35				25 x 45	30 x 35	35 x 30			30 x 45	35 x 35
18000	189	22 x 45	25 x 40	30 x 30	35 x 25		25 x 50	30 x 40					35 x 40
22000	229		25 x 45	30 x 35				30 x 45	35 x 35				35 x 50

Capacitance		Rated Voltage (V.DC)											
		50				63				100			
µF	Code	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L
1200	128					22 x 25				22 x 40	25 x 35	30 x 25	
1500	158									22 x 45	25 x 40	30 x 30	35 x 25
1800	188	22 x 25				22 x 30	25 x 25				25 x 45	30 x 35	
2200	228	22 x 25				22 x 35	25 x 30				25 x 50	30 x 40	35 x 30
2700	278	22 x 30	25 x 25			22 x 40	25 x 35	30 x 25				30 x 45	35 x 35
3300	338	22 x 35	25 x 35			22 x 50	25 x 40	30 x 30	35 x 25			30 x 50	35 x 40
3900	398	22 x 40	25 x 35	30 x 25			25 x 45	30 x 35					35 x 45
4700	478	22 x 45		30 x 30	35 x 25		25 x 50	30 x 40	35 x 30				35 x 50
5600	568	22 x 50	25 x 40	30 x 35				30 x 45	35 x 35				35 x 50
6800	688		25 x 50	30 x 40	35 x 30			30 x 50	35 x 40				
8200	828			30 x 45	35 x 35				35 x 45				
10000	109			30 x 50	35 x 40				35 x 50				
12000	129				35 x 45								

Capacitance		Rated Voltage (V.DC)											
		160				200				250			
µF	Code	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L
180	187									22 x 30	25 x 25		
220	227					22 x 25				22 x 35	25 x 30		
270	277	22 x 25				22 x 25	25 x 25			22 x 35			
330	337	22 x 30				22 x 30	25 x 25			22 x 40	25 x 30		
390	397	22 x 30	25 x 25			22 x 35		30 x 25		22 x 45	25 x 35		
470	477	22 x 35	25 x 25			22 x 40	25 x 30	30 x 25		22 x 50	25 x 40	30 x 30	35 x 30
560	567	22 x 40	25 x 30	30 x 25		22 x 45	25 x 35	30 x 30			25 x 45	30 x 35	35 x 30
680	687	22 x 45	25 x 35	30 x 25		22 x 50	25 x 40	30 x 35	35 x 25		25 x 50	30 x 40	35 x 35
820	827	22 x 50	25 x 40	30 x 30	35 x 25		25 x 50	30 x 40	35 x 35			30 x 45	35 x 40
1000	108		25 x 45	30 x 35	35 x 30			30 x 45	35 x 35				35 x 45
1200	128		25 x 50	30 x 40	35 x 35			30 x 50	35 x 40				35 x 45
1500	158			30 x 45	35 x 40				35 x 50				
1800	188			30 x 50	35 x 50				35 x 50				

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Product Availability Chart (cont.)

Capacitance		Rated Voltage (V.DC)											
		350				400				450			
µF	Code	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L
56	566									22 x 25			
68	686	22 x 25				22 x 30				22 x 30	25 x 25		
82	826	22 x 25				22 x 30	25 x 25			22 x 35			
100	107	22 x 30	25 x 25			22 x 35	25 x 30			22 x 40	25 x 30	30 x 25	
120	127	22 x 35				22 x 35	25 x 30	30 x 25		22 x 45	25 x 35		
						22 x 40	25 x 35						
150	157	22 x 40	25 x 30	30 x 25		22 x 40	25 x 35	30 x 30		22 x 50	25 x 40	30 x 30	35 x 25
						22 x 50	25 x 40						
180	187		25 x 35	30 x 30		22 x 50	25 x 40	30 x 30	35 x 25		25 x 45	30 x 35	
							25 x 45	30 x 35					
220	227		25 x 40	30 x 30	35 x 25		25 x 50	30 x 35	35 x 30		25 x 50	30 x 40	35 x 30
								30 x 40					
270	277			30 x 35	35 x 30		25 x 50	30 x 40	35 x 35			30 x 45	35 x 35
								30 x 45					
330	337			30 x 45	35 x 40			30 x 45	35 x 40			30 x 50	35 x 45
390	397							30 x 50	35 x 45				35 x 50
470	477				35 x 45				35 x 50				35 x 50
560	567				35 x 50								

Standard Product Table

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code					
16	6800	688	22x25	H25	40	1.57	TYSH1C688H25ML
16	8200	828	22x25	H25	40	1.94	TYSH1C828H25ML
16	10000	109	22x30	H30	40	1.97	TYSH1C109H30ML
16	10000	109	25x30	J30	40	2.12	TYSH1C109J30ML
16	12000	129	22x35	H35	40	2.22	TYSH1C129H35ML
16	12000	129	25x30	J30	40	2.24	TYSH1C129J30ML
16	12000	129	30x25	K25	40	2.45	TYSH1C129K25ML
16	15000	159	22x40	H40	40	2.55	TYSH1C159H40ML
16	15000	159	25x35	J35	40	2.58	TYSH1C159J35ML
16	18000	189	22x45	H45	40	2.87	TYSH1C189H45ML
16	18000	189	25x40	J40	40	2.92	TYSH1C189J40ML
16	18000	189	30x30	K30	40	2.88	TYSH1C189K30ML
16	18000	189	35x25	L25	40	2.92	TYSH1C189L25ML
16	22000	229	25x45	J45	40	3.32	TYSH1C229J45ML
16	22000	229	30x35	K35	40	2.29	TYSH1C229K35ML
25	4700	478	22x25	H25	30	1.50	TYSH1E478H25ML
25	5600	568	22x25	H25	30	1.72	TYSH1E568H25ML
25	6800	688	22x30	H30	30	1.86	TYSH1E688H30ML
25	6800	688	25x25	J25	30	1.87	TYSH1E688J25ML
25	8200	828	22x35	H35	30	2.11	TYSH1E828H35ML
25	8200	828	25x30	J30	30	2.12	TYSH1E828J30ML
25	8200	828	30x25	K25	30	2.15	TYSH1E828K25ML
25	10000	109	22x40	H40	30	2.39	TYSH1E109H40ML
25	10000	109	25x35	J35	30	2.42	TYSH1E109J35ML
25	12000	129	22x45	H45	30	2.69	TYSH1E129H45ML
25	12000	129	25x40	J40	30	2.74	TYSH1E129J40ML
25	12000	129	30x30	K30	30	2.70	TYSH1E129K30ML
25	12000	129	35x25	L25	30	2.74	TYSH1E129L25ML
25	15000	159	25x45	J45	30	3.15	TYSH1E159J45ML
25	15000	159	30x35	K35	30	3.13	TYSH1E159K35ML
25	15000	159	35x30	L30	30	3.27	TYSH1E159L30ML
25	18000	189	25x50	J50	30	3.54	TYSH1E189J50ML
25	18000	189	30x40	K40	30	3.54	TYSH1E189K40ML

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Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code					
25	22000	229	30x45	K45	30	4.04	TYSH1E229K45ML
25	22000	229	35x35	L35	30	3.64	TYSH1E229L35ML
35	4700	478	25x25	J25	25	1.80	TYSH1V478J25ML
35	5600	568	22x35	H35	25	1.95	TYSH1V568H35ML
35	5600	568	25x30	J30	25	1.96	TYSH1V568J30ML
35	5600	568	30x25	K25	25	1.99	TYSH1V568K25ML
35	6800	688	22x40	H40	25	2.20	TYSH1V688H40ML
35	6800	688	25x35	J35	25	2.23	TYSH1V688J35ML
35	8200	828	22x50	H50	25	2.55	TYSH1V828H50ML
35	8200	828	25x40	J40	25	2.53	TYSH1V828J40ML
35	8200	828	30x30	K30	25	2.75	TYSH1V828K30ML
35	8200	828	35x25	L25	25	2.75	TYSH1V828L25ML
35	10000	109	25x45	J45	25	2.87	TYSH1V109J45ML
35	10000	109	30x35	K35	25	2.90	TYSH1V109K35ML
35	12000	129	25x50	J50	25	3.24	TYSH1V129J50ML
35	12000	129	30x40	K40	25	3.23	TYSH1V129K40ML
35	12000	129	35x30	L30	25	2.99	TYSH1V129L30ML
35	15000	159	30x45	K45	25	3.72	TYSH1V159K45ML
35	15000	159	35x35	L35	25	3.67	TYSH1V159L35ML
35	18000	189	35x40	L40	25	4.37	TYSH1V189L40ML
35	22000	229	35x50	L50	25	4.92	TYSH1V229L50ML
50	1800	188	22x25	H25	20	1.33	TYSH1H188H25ML
50	2200	228	22x25	H25	20	1.48	TYSH1H228H25ML
50	2700	278	22x30	H30	20	1.69	TYSH1H278H30ML
50	2700	278	25x25	J25	20	1.70	TYSH1H278J25ML
50	3300	338	22x35	H35	20	1.93	TYSH1H338H35ML
50	3300	338	25x35	J35	20	1.85	TYSH1H338J35ML
50	3900	398	22x40	H40	20	2.16	TYSH1H398H40ML
50	3900	398	25x35	J35	20	2.18	TYSH1H398J35ML
50	3900	398	30x25	K25	20	1.95	TYSH1H398K25ML
50	4700	478	22x45	H45	20	2.43	TYSH1H478H45ML
50	4700	478	30x30	K30	20	2.25	TYSH1H478K30ML
50	4700	478	35x25	L25	20	2.48	TYSH1H478L25ML
50	5600	568	22x50	H50	20	2.75	TYSH1H568H50ML
50	5600	568	25x40	J40	20	2.70	TYSH1H568J40ML
50	5600	568	30x35	K35	20	2.76	TYSH1H568K35ML
50	6800	688	25x50	J50	20	3.30	TYSH1H688J50ML
50	6800	688	30x40	K40	20	3.30	TYSH1H688K40ML
50	6800	688	35x30	L30	20	3.25	TYSH1H688L30ML
50	8200	828	30x45	K45	20	3.60	TYSH1H828K45ML
50	8200	828	35x35	L35	20	3.55	TYSH1H828L35ML
50	10000	109	30x50	K50	20	4.04	TYSH1H109K50ML
50	10000	109	35x40	L40	20	4.03	TYSH1H109L40ML
50	12000	129	35x45	L45	20	4.55	TYSH1H129L45ML
63	1200	128	22x25	H25	15	1.19	TYSH1J128H25ML
63	1800	188	22x30	H30	15	1.51	TYSH1J188H30ML
63	1800	188	25x25	J25	15	1.52	TYSH1J188J25ML
63	2200	228	22x35	H35	15	1.73	TYSH1J228H35ML
63	2200	228	25x30	J30	15	1.74	TYSH1J228J30ML
63	2700	278	22x40	H40	15	1.97	TYSH1J278H40ML
63	2700	278	25x35	J35	15	1.99	TYSH1J278J35ML
63	2700	278	30x25	K25	15	1.76	TYSH1J278K25ML
63	3300	338	22x50	H50	15	2.29	TYSH1J338H50ML
63	3300	338	25x40	J40	15	2.27	TYSH1J338J40ML

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Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code					
63	3300	338	30x30	K30	15	2.24	TYSH1J338K30ML
63	3300	338	35x25	L25	15	2.06	TYSH1J338L25ML
63	3900	398	25x45	J45	15	2.54	TYSH1J398J45ML
63	3900	398	30x35	K35	15	2.55	TYSH1J398K35ML
63	4700	478	25x50	J50	15	2.86	TYSH1J478J50ML
63	4700	478	30x40	K40	15	2.86	TYSH1J478K40ML
63	4700	478	35x30	L30	15	2.79	TYSH1J478L30ML
63	5600	568	30x45	K45	15	3.22	TYSH1J568K45ML
63	5600	568	35x35	L35	15	3.19	TYSH1J568L35ML
63	6800	688	30x50	K50	15	3.65	TYSH1J688K50ML
63	6800	688	35x40	L40	15	3.64	TYSH1J688L40ML
63	8200	828	35x45	L45	15	3.90	TYSH1J828L45ML
63	10000	109	35x50	L50	15	4.40	TYSH1J109L50ML
100	1200	128	22x40	H40	15	1.69	TYSH2A128H40ML
100	1200	128	25x35	J35	15	1.71	TYSH2A128J35ML
100	1200	128	30x25	K25	15	1.68	TYSH2A128K25ML
100	1500	158	22x45	H45	15	1.94	TYSH2A158H45ML
100	1500	158	25x40	J40	15	1.98	TYSH2A158J40ML
100	1500	158	30x30	K30	15	1.95	TYSH2A158K30ML
100	1500	158	35x25	L25	15	1.98	TYSH2A158L25ML
100	1800	188	25x45	J45	15	2.23	TYSH2A188J45ML
100	1800	188	30x35	K35	15	2.50	TYSH2A188K35ML
100	2200	228	25x50	J50	15	2.53	TYSH2A228J50ML
100	2200	228	30x40	K40	15	2.70	TYSH2A228K40ML
100	2200	228	35x30	L30	15	2.50	TYSH2A228L30ML
100	2700	278	30x45	K45	15	2.88	TYSH2A278K45ML
100	2700	278	35x35	L35	15	2.86	TYSH2A278L35ML
100	3300	338	30x50	K50	15	3.28	TYSH2A338K50ML
100	3300	338	35x40	L40	15	3.27	TYSH2A338L40ML
100	3900	398	35x45	L45	15	3.67	TYSH2A398L45ML
100	4700	478	35x50	L50	15	3.67	TYSH2A478L50ML
100	5600	568	35x50	L50	15	3.80	TYSH2A568L50ML
160	270	277	22x25	H25	10	0.86	TYSH2C277H25ML
160	330	337	22x30	H30	10	1.20	TYSH2C337H30ML
160	390	397	22x30	H30	10	1.22	TYSH2C397H30ML
160	390	397	25x25	J25	10	1.15	TYSH2C397J25ML
160	470	477	22x35	H35	10	1.35	TYSH2C477H35ML
160	470	477	25x25	J25	10	1.33	TYSH2C477J25ML
160	470	477	25x30	J30	10	1.41	TYSH2C477J30ML
160	560	567	22x40	H40	10	1.50	TYSH2C567H40ML
160	560	567	25x30	J30	10	1.45	TYSH2C567J30ML
160	560	567	30x25	K25	10	1.40	TYSH2C567K25ML
160	680	687	22x45	H45	10	1.65	TYSH2C687H45ML
160	680	687	25x35	J35	10	1.65	TYSH2C687J35ML
160	680	687	30x25	K25	10	1.65	TYSH2C687K25ML
160	680	687	30x30	K30	10	1.72	TYSH2C687K30ML
160	820	827	22x50	H50	10	1.93	TYSH2C827H50ML
160	820	827	25x40	J40	10	1.85	TYSH2C827J40ML
160	820	827	30x30	K30	10	1.76	TYSH2C827K30ML
160	820	827	35x25	L25	15	1.91	TYSH2C827L25ML
160	1000	108	25x45	J45	10	2.20	TYSH2C108J45ML
160	1000	108	30x35	K35	10	2.02	TYSH2C108K35ML
160	1000	108	35x30	L30	15	2.44	TYSH2C108L30ML
160	1200	128	25x50	J50	10	2.45	TYSH2C128J50ML

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Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code					
160	1200	128	30x40	K40	10	2.35	TYSH2C128K40ML
160	1200	128	35x35	L35	15	2.50	TYSH2C128L35ML
160	1500	158	30x45	K45	10	2.82	TYSH2C158K45ML
160	1500	158	35x40	L40	15	2.70	TYSH2C158L40ML
160	1800	188	30x50	K50	10	3.31	TYSH2C158K50ML
160	1800	188	35x50	L50	15	3.10	TYSH2C188L50ML
200	220	227	22x25	H25	10	0.89	TYSH2D227H25ML
200	270	277	22x25	H25	10	0.87	TYSH2D277H25ML
200	270	277	25x25	J25	10	1.00	TYSH2D277J25ML
200	330	337	22x30	H30	10	1.13	TYSH2D337H30ML
200	330	337	25x25	J25	10	1.13	TYSH2D337J25ML
200	390	397	22x35	H35	10	1.25	TYSH2D397H35ML
200	390	397	30x25	K25	10	1.20	TYSH2D397K25ML
200	470	477	22x40	H40	10	1.32	TYSH2D477H40ML
200	470	477	25x30	J30	10	1.32	TYSH2D477J30ML
200	470	477	25x35	J35	10	1.41	TYSH2D477J35ML
200	470	477	30x25	K25	10	1.50	TYSH2D477K25ML
200	560	567	22x45	H45	10	1.53	TYSH2D567H45ML
200	560	567	25x35	J35	10	1.50	TYSH2D567J35ML
200	560	567	30x30	K30	10	1.52	TYSH2D567K30ML
200	680	687	22x50	H50	10	1.74	TYSH2D687H50ML
200	680	687	25x40	J40	10	1.70	TYSH2D687J40ML
200	680	687	30x35	K35	10	1.73	TYSH2D687K35ML
200	680	687	35x25	L25	15	1.72	TYSH2D687L25ML
200	820	827	25x50	J50	10	2.04	TYSH2D827J50ML
200	820	827	30x40	K40	10	1.93	TYSH2D827K40ML
200	820	827	35x35	L35	15	1.93	TYSH2D827L35ML
200	1000	108	30x45	K45	10	2.20	TYSH2D108K45ML
200	1000	108	35x35	L35	15	2.20	TYSH2D108L35ML
200	1200	128	30x50	K50	10	2.60	TYSH2D128K50ML
200	1200	128	35x40	L40	15	2.65	TYSH2D128L40ML
200	1500	158	35x50	L50	15	2.80	TYSH2D158L50ML
200	1800	188	35x50	L50	15	3.47	TYSH2D188L50ML
250	180	187	22x30	H30	10	0.85	TYSH2E187H30ML
250	180	187	25x25	J25	10	0.85	TYSH2E187J25ML
250	220	227	22x35	H35	10	0.90	TYSH2E227H35ML
250	220	227	25x30	J30	10	1.00	TYSH2E227J30ML
250	270	277	22x35	H35	10	1.00	TYSH2E277H35ML
250	330	337	22x40	H40	10	1.10	TYSH2E337H40ML
250	330	337	25x30	J30	10	1.13	TYSH2E337J30ML
250	330	337	25x35	J35	10	1.20	TYSH2E337J35ML
250	390	397	22x45	H45	10	1.25	TYSH2E397H45ML
250	390	397	22x50	H50	10	1.49	TYSH2E397H50ML
250	390	397	25x35	J35	10	1.27	TYSH2E397J35ML
250	390	397	25x40	J40	10	1.49	TYSH2E397J40ML
250	470	477	22x50	H50	10	1.57	TYSH2E477H50ML
250	470	477	25x40	J40	10	1.38	TYSH2E477J40ML
250	470	477	25x45	J45	10	1.57	TYSH2E477J45ML
250	470	477	30x30	K30	10	1.37	TYSH2E477K30ML
250	470	477	30x35	K35	10	1.57	TYSH2E477K35ML
250	470	477	35x30	L30	15	1.30	TYSH2E477L30ML
250	560	567	25x45	J45	10	1.79	TYSH2E567J45ML
250	560	567	30x35	K35	10	1.58	TYSH2E567K35ML
250	560	567	30x40	K40	10	1.79	TYSH2E567K40ML

Type TYSH 105°C Series

Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	μF	Code					
250	560	567	35x30	L30	15	1.79	TYSH2E567L30ML
250	680	687	25x50	J50	10	1.84	TYSH2E687J50ML
250	680	687	30x40	K40	10	2.00	TYSH2E687K40ML
250	680	687	35x35	L35	15	1.58	TYSH2E687L35ML
250	820	827	30x45	K45	10	1.85	TYSH2E827K45ML
250	820	827	30x50	K50	10	2.16	TYSH2E827K50ML
250	820	827	35x40	L40	15	1.81	TYSH2E827L40ML
250	1000	108	35x45	L45	15	2.00	TYSH2E108L45ML
250	1200	128	35x45	L45	15	3.41	TYSH2E128L45ML
350	68	686	22x25	H25	15	0.51	TYSH2V686H25ML
350	82	826	22x25	H25	15	0.56	TYSH2V826H25ML
350	100	107	22x30	H30	15	0.69	TYSH2V107H30ML
350	100	107	25x25	J25	15	0.69	TYSH2V107J25ML
350	120	127	22x35	H35	15	0.75	TYSH2V127H35ML
350	150	157	22x40	H40	15	0.82	TYSH2V157H40ML
350	150	157	25x30	J30	15	0.83	TYSH2V157J30ML
350	150	157	30x25	K25	15	0.83	TYSH2V157K25ML
350	180	187	25x35	J35	15	0.92	TYSH2V187J35ML
350	180	187	30x30	K30	15	0.92	TYSH2V187K30ML
350	220	227	25x40	J40	15	1.04	TYSH2V227J40ML
350	220	227	30x30	K30	15	1.02	TYSH2V227K30ML
350	220	227	35x25	L25	15	1.04	TYSH2V227L25ML
350	270	277	30x35	K35	15	1.17	TYSH2V277K35ML
350	270	277	35x30	L30	15	1.20	TYSH2V277L30ML
350	330	337	30x45	K45	15	1.34	TYSH2V337K45ML
350	390	397	35x40	L40	15	1.47	TYSH2V397L40ML
350	470	477	35x45	L45	15	1.69	TYSH2V477L45ML
350	560	567	35x50	L50	15	1.90	TYSH2V567L50ML
400	68	686	22x30	H30	15	0.51	TYSH2G686H30ML
400	82	826	22x30	H30	15	0.58	TYSH2G826H30ML
400	82	826	25x25	J25	15	0.64	TYSH2G826J25ML
400	100	107	22x35	H35	15	0.61	TYSH2G107H35ML
400	100	107	25x30	J30	15	0.64	TYSH2G107J30ML
400	120	127	22x35	H35	15	0.67	TYSH2G127H35ML
400	120	127	22x40	H40	15	0.72	TYSH2G127H40ML
400	120	127	25x30	J30	15	0.69	TYSH2G127J30ML
400	120	127	25x35	J35	15	0.72	TYSH2G127J35ML
400	120	127	30x25	K25	15	0.76	TYSH2G127K25ML
400	150	157	22x40	H40	15	0.77	TYSH2G157H40ML
400	150	157	22x50	H50	15	0.82	TYSH2G157H50ML
400	150	157	25x35	J35	15	0.78	TYSH2G157J35ML
400	150	157	25x40	J40	15	0.84	TYSH2G157J40ML
400	150	157	30x30	K30	15	0.76	TYSH2G157K30ML
400	180	187	22x50	H50	15	0.95	TYSH2G187H50ML
400	180	187	25x40	J40	15	0.83	TYSH2G187J40ML
400	180	187	25x45	J45	15	0.94	TYSH2G187J45ML
400	180	187	30x30	K30	15	0.82	TYSH2G187K30ML
400	180	187	30x35	K35	15	0.92	TYSH2G187K35ML
400	180	187	35x25	L25	15	0.90	TYSH2G187L25ML
400	220	227	25x50	J50	15	1.07	TYSH2G227J50ML
400	220	227	30x35	K35	15	0.91	TYSH2G227K35ML
400	220	227	30x40	K40	15	1.06	TYSH2G227K40ML
400	220	227	35x30	L30	15	1.08	TYSH2G227L30ML

Type TYSH 105°C Series

Standard Product Table (cont.)

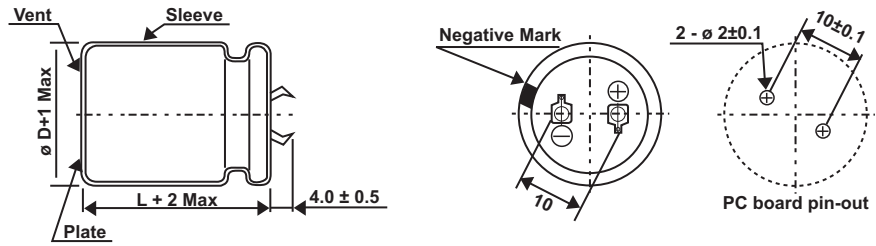
Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	μF	Code					
400	270	277	25x50	J50	15	1.21	TYSH2G277J50ML
400	270	277	30x40	K40	15	1.10	TYSH2G277K40ML
400	270	277	30x45	K45	15	1.21	TYSH2G277K45ML
400	270	277	35x35	L35	15	1.12	TYSH2G277L35ML
400	330	337	30x45	K45	15	1.39	TYSH2G337K45ML
400	330	337	35x40	L40	15	1.25	TYSH2G337L40ML
400	390	397	30x50	K50	15	1.55	TYSH2G397K50ML
400	390	397	35x45	L45	15	1.55	TYSH2G397L45ML
400	470	477	35x50	L50	15	1.72	TYSH2G477L50ML
450	56	566	22x25	H25	15	0.40	TYSH2W566H25ML
450	68	686	22x30	H30	15	0.50	TYSH2W686H30ML
450	68	686	25x25	J25	15	0.50	TYSH2W686J25ML
450	82	826	22x35	H35	15	0.56	TYSH2W826H35ML
450	100	107	22x40	H40	15	0.64	TYSH2W107H40ML
450	100	107	25x30	J30	15	0.57	TYSH2W107J30ML
450	100	107	30x25	K25	15	0.64	TYSH2W107K25ML
450	120	127	22x45	H45	15	0.72	TYSH2W127H45ML
450	120	127	25x35	J35	15	0.71	TYSH2W127J35ML
450	150	157	22x50	H50	15	0.79	TYSH2W157H50ML
450	150	157	25x40	J40	15	0.75	TYSH2W157J40ML
450	150	157	30x30	K30	15	0.74	TYSH2W157K30ML
450	150	157	35x25	L25	15	0.75	TYSH2W157L25ML
450	180	187	25x45	J45	15	0.84	TYSH2W187J45ML
450	180	187	30x35	K35	15	0.87	TYSH2W187K35ML
450	220	227	25x50	J50	15	0.98	TYSH2W227J50ML
450	220	227	30x40	K40	15	0.98	TYSH2W227K40ML
450	220	227	35x30	L30	15	1.00	TYSH2W227L30ML
450	270	277	30x45	K45	15	1.15	TYSH2W277K45ML
450	270	277	35x35	L35	15	1.17	TYSH2W277L35ML
450	330	337	30x50	K50	15	1.38	TYSH2W337K50ML
450	330	337	35x45	L45	15	1.70	TYSH2W337L45ML
450	390	397	35x50	L50	15	1.94	TYSH2W397L50ML
450	470	477	35x50	L50	15	2.13	TYSH2W477L50ML

^{*}DF measured at 120Hz, 20°C

^{*}RC measured at 120Hz, 85°C

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Dimensions



Case Code	Dimensions (mm)	
	Dia	L
H25	22	25
H30	22	30
H35	22	35
H40	22	40
H45	22	45
H50	22	50
J25	25	25
J30	25	30
J35	25	35
J40	25	40
J45	25	45
J50	25	50
K25	30	25
K30	30	30
K35	30	35
K40	30	40
K45	30	45
K50	30	50
L25	35	25
L30	35	30
L35	35	35
L40	35	40
L45	35	45
L50	35	50

How to Order

TYSH	1C	688	H25	M	L
Common Part	Voltage Code	Capacitance	Case Code	Tolerance	Packaging
TYSH	1C (16V) 1E (25V) 1V (35V) 1H (50V) 1J (63V) 2A (100V) 2C (160V) 2D (200V) 2E (250V) 2V (350V) 2G (400V) 2W (450V)	e.g. 688	e.g. H25	M (20%)	L = Loose (bulk)

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