

Type TYSV Series



Tyco Electronics snap-in aluminum electrolytic capacitors are designed for direct-soldering PCB mounting where board space is restricted.

The TYSV series offers a wide capacitance range at voltages from 16 to 500Vd.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.

Key Features

- General purpose polarized aluminum foil electrolytic capacitors
- Snap-in PCB mounting
- Aluminum case with insulating sleeve
- 85°C temperature rating
- 2000 hours load life assured
- RoHS Compliant

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	8200	828	22x25	H25	40	2.56	TYSV1C828H25ML
16	10000	109	22x30	H30	40	2.81	TYSV1C109H30ML
16	10000	109	25x30	J30	40	3.03	TYSV1C109J30ML
16	12000	129	22x30	H30	40	3.13	TYSV1C129H30ML
16	12000	129	25x25	J25	40	2.96	TYSV1C129J25ML
16	15000	159	22x35	H35	40	3.69	TYSV1C159H35ML
16	15000	159	25x30	J30	40	3.64	TYSV1C159J30ML
16	15000	159	30x25	K25	40	3.73	TYSV1C159K25ML
16	18000	189	22x40	H40	40	3.98	TYSV1C189H40ML
16	18000	189	25x35	J35	40	3.98	TYSV1C189J35ML
16	22000	229	22x50	H50	40	4.52	TYSV1C229H50ML
16	22000	229	25x40	J40	40	4.44	TYSV1C229J40ML
16	22000	229	30x30	K30	40	4.38	TYSV1C229K30ML
25	5600	568	22x25	H25	30	2.31	TYSV1E568H25ML
25	6800	688	22x30	H30	30	2.56	TYSV1E688H30ML
25	6800	688	25x25	J25	30	2.78	TYSV1E688J25ML
25	8200	828	22x35	H35	30	2.81	TYSV1E828H35ML
25	8200	828	25x25	J25	30	2.78	TYSV1E828J25ML
25	10000	109	22x35	H35	30	3.18	TYSV1E109H35ML
25	10000	109	25x30	J30	30	3.16	TYSV1E109J30ML
25	10000	109	30x25	K25	30	3.21	TYSV1E109K25ML
25	12000	129	22x40	H40	30	3.53	TYSV1E129H40ML
25	12000	129	25x35	J35	30	3.48	TYSV1E129J35ML
25	12000	129	30x30	K30	30	3.86	TYSV1E129K30ML
25	15000	159	22x50	H50	30	4.08	TYSV1E159H50ML
25	15000	159	25x40	J40	30	4.00	TYSV1E159J40ML
25	15000	159	30x35	K35	30	4.12	TYSV1E159K35ML
25	18000	189	25x45	J45	30	4.68	TYSV1E189J45ML
25	18000	189	30x35	K35	30	4.66	TYSV1E189K35ML
25	18000	189	35x30	L30	30	4.68	TYSV1E189L30ML
25	22000	229	30x45	K45	30	5.26	TYSV1E229K45ML
25	22000	229	35x35	L35	30	5.20	TYSV1E229L35ML
35	4700	478	22x30	H30	25	2.41	TYSV1V478H30ML
35	4700	478	25x25	J25	25	2.42	TYSV1V478J25ML
35	5600	568	22x35	H35	25	2.79	TYSV1V568H35ML
35	6800	688	22x40	H40	25	2.89	TYSV1V688H40ML
35	6800	688	25x30	J30	25	2.89	TYSV1V688J30ML
35	6800	688	30x25	K25	25	3.09	TYSV1V688K25ML
35	8200	828	22x45	H45	25	3.47	TYSV1V828H45ML
35	8200	828	25x35	J35	25	3.33	TYSV1V828J35ML
35	8200	828	30x30	K30	25	3.29	TYSV1V828K30ML
35	10000	109	22x50	H50	25	3.59	TYSV1V109H50ML
35	10000	109	25x40	J40	25	3.59	TYSV1V109J40ML
35	10000	109	30x30	K30	25	3.61	TYSV1V109K30ML
35	10000	109	35x25	L25	25	3.32	TYSV1V109L25ML
35	12000	129	25x45	J45	25	4.01	TYSV1V129J45ML
35	12000	129	30x35	K35	25	4.01	TYSV1V129K35ML
35	12000	129	35x30	L30	25	4.02	TYSV1V129L30ML
35	15000	159	30x40	K40	25	4.80	TYSV1V159K40ML
35	15000	159	35x35	L35	25	5.01	TYSV1V159L35ML
35	18000	189	30x45	K45	25	5.18	TYSV1V189K45ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
35	18000	189	35x40	L40	25	5.71	TYSV1V189L40ML
35	22000	229	35x45	L45	25	6.38	TYSV1V229L45ML
50	2200	228	22x25	H25	20	1.93	TYSV1H228H25ML
50	2700	278	22x30	H30	20	2.21	TYSV1H278H30ML
50	3300	338	22x30	H30	20	2.41	TYSV1H338H30ML
50	3300	338	25x25	J25	20	2.38	TYSV1H338J25ML
50	3900	398	22x35	H35	20	2.72	TYSV1H398H35ML
50	3900	398	25x30	J30	20	2.68	TYSV1H398J30ML
50	4700	478	22x40	H40	20	3.01	TYSV1H478H40ML
50	4700	478	25x30	J30	20	3.03	TYSV1H478J30ML
50	4700	478	30x25	K25	20	3.01	TYSV1H478K25ML
50	5600	568	22x45	H45	20	3.43	TYSV1H568H45ML
50	5600	568	25x35	J35	20	3.37	TYSV1H568J35ML
50	5600	568	30x30	K30	20	3.43	TYSV1H568K30ML
50	6800	688	22x50	H50	20	3.94	TYSV1H688H50ML
50	6800	688	25x40	J40	20	3.87	TYSV1H688J40ML
50	6800	688	30x35	K35	20	3.87	TYSV1H688K35ML
50	8200	828	25x45	J45	20	4.37	TYSV1H828J45ML
50	8200	828	30x35	K35	20	4.42	TYSV1H828K35ML
50	8200	828	35x30	L30	20	4.41	TYSV1H828L30ML
50	10000	109	30x40	K40	20	5.02	TYSV1H109K40ML
50	10000	109	35x35	L35	20	4.92	TYSV1H109L35ML
50	12000	129	30x50	K50	20	5.60	TYSV1H129K50ML
50	12000	129	35x40	L40	20	5.60	TYSV1H129L40ML
50	15000	159	35x45	L45	20	6.44	TYSV1H159L45ML
63	1800	188	22x25	H25	15	1.90	TYSV1J188H25ML
63	2200	228	22x30	H30	15	2.35	TYSV1J228H30ML
63	2200	228	25x25	J25	15	2.30	TYSV1J228J25ML
63	2700	278	22x35	H35	15	2.50	TYSV1J278H35ML
63	2700	278	25x30	J30	15	2.52	TYSV1J278J30ML
63	3300	338	22x35	H35	15	2.62	TYSV1J338H35ML
63	3300	338	25x30	J30	15	2.69	TYSV1J338J30ML
63	3300	338	30x25	K25	15	2.78	TYSV1J338K25ML
63	3900	398	22x45	H45	15	3.10	TYSV1J398H45ML
63	3900	398	25x35	J35	15	3.09	TYSV1J398J35ML
63	3900	398	30x30	K30	15	3.09	TYSV1J398K30ML
63	4700	478	22x50	H50	15	3.49	TYSV1J478H50ML
63	4700	478	25x40	J40	15	3.37	TYSV1J478J40ML
63	4700	478	30x30	K30	15	3.37	TYSV1J478K30ML
63	4700	478	35x25	L25	15	3.36	TYSV1J478L25ML
63	5600	568	25x45	J45	15	3.77	TYSV1J568J45ML
63	5600	568	30x35	K35	15	3.75	TYSV1J568K35ML
63	6800	688	25x50	J50	15	4.41	TYSV1J688J50ML
63	6800	688	30x40	K40	15	4.41	TYSV1J688K40ML
63	6800	688	35x35	L35	15	4.33	TYSV1J688L35ML
63	8200	828	30x45	K45	15	4.90	TYSV1J828K45ML
63	8200	828	35x35	L35	15	4.80	TYSV1J828L35ML
63	10000	109	30x50	K50	15	5.49	TYSV1J109K50ML
63	10000	109	35x40	L40	15	5.47	TYSV1J109L40ML
63	12000	129	35x50	L50	15	6.30	TYSV1J129L50ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
100	1200	128	22x30	H30	15	2.12	TYSV2A128H30ML
100	1200	128	25x25	J25	15	2.10	TYSV2A128J25ML
100	1500	158	22x35	H35	15	2.45	TYSV2A158H35ML
100	1500	158	25x30	J30	15	2.43	TYSV2A158J30ML
100	1500	158	30x25	K25	15	2.46	TYSV2A158K25ML
100	1800	188	22x40	H40	15	2.77	TYSV2A188H40ML
100	1800	188	25x35	J35	15	2.77	TYSV2A188J35ML
100	1800	188	30x25	K25	15	2.65	TYSV2A188K25ML
100	2200	228	22x45	H45	15	3.12	TYSV2A228H45ML
100	2200	228	25x40	J40	15	3.20	TYSV2A228J40ML
100	2200	228	30x30	K30	15	3.10	TYSV2A228K30ML
100	2200	228	35x25	L25	15	3.14	TYSV2A228L25ML
100	2700	278	25x45	J45	15	3.61	TYSV2A278J45ML
100	2700	278	30x35	K35	15	3.60	TYSV2A278K35ML
100	2700	278	35x30	L30	15	3.71	TYSV2A278L30ML
100	3300	338	25x50	J50	15	4.06	TYSV2A338J50ML
100	3300	338	30x40	K40	15	4.05	TYSV2A338K40ML
100	3300	338	35x35	L35	15	4.07	TYSV2A338L35ML
100	3900	398	30x45	K45	15	4.60	TYSV2A398K45ML
100	3900	398	35x35	L35	15	4.50	TYSV2A398L35ML
100	4700	478	30x50	K50	15	5.13	TYSV2A478K50ML
100	4700	478	35x40	L40	15	5.12	TYSV2A478L40ML
100	5600	568	35x45	L45	15	5.75	TYSV2A568L45ML
100	6800	688	35x50	L50	15	6.01	TYSV2A688L50ML
160	270	277	22x25	H25	15	1.27	TYSV2C277H25ML
160	330	337	22x25	H25	15	1.40	TYSV2C337H25ML
160	390	397	22x30	H30	15	1.62	TYSV2C397H30ML
160	470	477	22x30	H30	15	1.77	TYSV2C477H30ML
160	470	477	25x25	J25	15	1.77	TYSV2C477J25ML
160	560	567	22x30	H30	15	1.92	TYSV2C567H30ML
160	560	567	22x35	H35	15	2.05	TYSV2C567H35ML
160	560	567	25x25	J25	15	1.92	TYSV2C567J25ML
160	560	567	25x30	J30	15	2.05	TYSV2C567J30ML
160	680	687	22x35	H35	15	2.12	TYSV2C687H35ML
160	680	687	22x40	H40	15	2.24	TYSV2C687H40ML
160	680	687	25x30	J30	15	2.22	TYSV2C687J30ML
160	680	687	30x25	K25	15	2.22	TYSV2C687K25ML
160	820	827	22x40	H40	15	2.32	TYSV2C827H40ML
160	820	827	22x45	H45	15	2.55	TYSV2C827H45ML
160	820	827	25x30	J30	15	2.32	TYSV2C827J30ML
160	820	827	25x35	J35	15	2.52	TYSV2C827J35ML
160	820	827	30x25	K25	15	2.31	TYSV2C827K25ML
160	820	827	30x30	K30	15	2.51	TYSV2C827K30ML
160	1000	108	22x50	H50	15	2.88	TYSV2C108H50ML
160	1000	108	25x40	J40	15	2.86	TYSV2C108J40ML
160	1000	108	25x45	J45	15	2.98	TYSV2C108J45ML
160	1000	108	30x30	K30	15	2.82	TYSV2C108K30ML
160	1000	108	30x35	K35	15	2.94	TYSV2C108K35ML
160	1000	108	35x30	L30	15	2.92	TYSV2C108L30ML
160	1200	128	25x45	J45	15	3.27	TYSV2C128J45ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
160	1200	128	25x50	J50	15	3.43	TYSV2C128J50ML
160	1200	128	30x35	K35	15	3.25	TYSV2C128K35ML
160	1200	128	35x30	L30	15	3.24	TYSV2C128L30ML
160	1500	158	30x40	K40	15	3.77	TYSV2C158K40ML
160	1500	158	30x45	K45	15	3.92	TYSV2C158K45ML
160	1500	158	35x35	L35	15	3.75	TYSV2C158L35ML
160	1800	188	30x45	K45	15	4.10	TYSV2C188K45ML
160	1800	188	30x50	K50	15	4.32	TYSV2C188K50ML
160	1800	188	35x35	L35	15	4.08	TYSV2C188L35ML
160	2200	228	35x45	L45	15	4.72	TYSV2C228L45ML
200	150	157	22x25	H25	15	0.95	TYSV2D157H25ML
200	220	227	22x25	H25	15	1.15	TYSV2D227H25ML
200	270	277	22x25	H25	15	1.30	TYSV2D277H25ML
200	330	337	22x30	H30	15	1.44	TYSV2D337H30ML
200	330	337	25x25	J25	15	1.43	TYSV2D337J25ML
200	390	397	22x30	H30	15	1.65	TYSV2D397H30ML
200	390	397	25x25	J25	15	1.63	TYSV2D397J25ML
200	470	477	22x35	H35	15	1.88	TYSV2D477H35ML
200	470	477	25x30	J30	15	1.86	TYSV2D477J30ML
200	470	477	30x25	K25	15	1.85	TYSV2D477K25ML
200	560	567	22x40	H40	15	2.08	TYSV2D567H40ML
200	560	567	25x30	J30	15	2.05	TYSV2D567J30ML
200	560	567	30x25	K25	15	2.05	TYSV2D567K25ML
200	680	687	22x45	H45	15	2.36	TYSV2D687H45ML
200	680	687	25x35	J35	15	2.36	TYSV2D687J35ML
200	680	687	30x30	K30	15	2.36	TYSV2D687K30ML
200	820	827	22x50	H50	15	2.68	TYSV2D827H50ML
200	820	827	25x40	J40	15	2.66	TYSV2D827J40ML
200	820	827	25x45	J45	15	2.79	TYSV2D827J45ML
200	820	827	30x30	K30	15	2.62	TYSV2D827K30ML
200	820	827	30x35	K35	15	2.77	TYSV2D827K35ML
200	820	827	35x30	L30	15	2.72	TYSV2D827L30ML
200	1000	108	25x45	J45	15	3.12	TYSV2D108J45ML
200	1000	108	25x50	J50	15	2.96	TYSV2D108J50ML
200	1000	108	30x35	K35	15	3.00	TYSV2D108K35ML
200	1000	108	30x40	K40	15	3.10	TYSV2D108K40ML
200	1000	108	35x30	L30	15	2.96	TYSV2D108L30ML
200	1200	128	30x40	K40	15	3.44	TYSV2D128K40ML
200	1200	128	30x45	K45	15	3.53	TYSV2D128K45ML
200	1200	128	35x35	L35	15	3.40	TYSV2D128L35ML
200	1500	158	30x50	K50	15	3.93	TYSV2D158K50ML
200	1500	158	35x40	L40	15	3.87	TYSV2D158L40ML
200	1800	188	35x45	L45	15	4.37	TYSV2D188L45ML
200	2200	228	35x50	L50	15	5.00	TYSV2D228L50ML
250	150	157	22x25	H25	15	0.91	TYSV2E157H25ML
250	180	187	22x25	H25	15	1.01	TYSV2E187H25ML
250	220	227	22x25	H25	15	1.18	TYSV2E227H25ML
250	220	227	25x25	J25	15	1.24	TYSV2E227J25ML
250	270	277	22x30	H30	15	1.43	TYSV2E277H30ML
250	270	277	25x25	J25	15	1.49	TYSV2E277J25ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
250	330	337	22x30	H30	15	1.58	TYSV2E337H30ML
250	330	337	22x35	H35	15	1.67	TYSV2E337H35ML
250	330	337	25x25	J25	15	1.53	TYSV2E337J25ML
250	330	337	25x30	J30	15	1.62	TYSV2E337J30ML
250	390	397	22x35	H35	15	1.79	TYSV2E397H35ML
250	390	397	22x40	H40	15	1.89	TYSV2E397H40ML
250	390	397	25x30	J30	15	1.79	TYSV2E397J30ML
250	390	397	25x35	J35	15	1.87	TYSV2E397J35ML
250	390	397	30x25	K25	15	1.77	TYSV2E397K25ML
250	470	477	22x40	H40	15	2.05	TYSV2E477H40ML
250	470	477	22x45	H45	15	2.14	TYSV2E477H45ML
250	470	477	25x35	J35	15	2.05	TYSV2E477J35ML
250	470	477	30x30	K30	15	2.03	TYSV2E477K30ML
250	560	567	22x50	H50	15	2.43	TYSV2E567H50ML
250	560	567	25x40	J40	15	2.32	TYSV2E567J40ML
250	560	567	25x45	J45	15	2.41	TYSV2E567J45ML
250	560	567	30x30	K30	15	2.24	TYSV2E567K30ML
250	560	567	30x35	K35	15	2.32	TYSV2E567K35ML
250	560	567	35x25	L25	15	2.21	TYSV2E567L25ML
250	680	687	25x45	J45	15	2.62	TYSV2E687J45ML
250	680	687	25x50	J50	15	2.70	TYSV2E687J50ML
250	680	687	30x35	K35	15	2.58	TYSV2E687K35ML
250	680	687	30x40	K40	15	2.65	TYSV2E687K40ML
250	680	687	35x30	L30	15	2.54	TYSV2E687L30ML
250	820	827	30x40	K40	15	2.92	TYSV2E827K40ML
250	820	827	30x45	K45	15	3.00	TYSV2E827K45ML
250	820	827	35x35	L35	15	2.90	TYSV2E827L35ML
250	1000	108	30x50	K50	15	3.47	TYSV2E108K50ML
250	1000	108	35x40	L40	15	3.39	TYSV2E108L40ML
250	1200	128	35x45	L45	15	3.74	TYSV2E128L45ML
350	82	826	22x25	H25	20	0.81	TYSV2V826H25ML
350	100	107	22x25	H25	20	0.90	TYSV2V107H25ML
350	120	127	22x25	H25	20	0.99	TYSV2V127H25ML
350	120	127	22x30	H30	20	1.05	TYSV2V127H30ML
350	120	127	25x25	J25	20	1.04	TYSV2V127J25ML
350	150	157	22x30	H30	20	1.14	TYSV2V157H30ML
350	150	157	22x35	H35	20	1.24	TYSV2V157H35ML
350	150	157	25x25	J25	20	1.16	TYSV2V157J25ML
350	150	157	25x30	J30	20	1.24	TYSV2V157J30ML
350	150	157	30x25	K25	20	1.24	TYSV2V157K25ML
350	180	187	22x40	H40	20	1.38	TYSV2V187H40ML
350	180	187	25x30	J30	20	1.30	TYSV2V187J30ML
350	180	187	25x35	J35	20	1.37	TYSV2V187J35ML
350	180	187	30x25	K25	20	1.37	TYSV2V187K25ML
350	220	227	22x40	H40	20	1.40	TYSV2V227H40ML
350	220	227	22x45	H45	20	1.49	TYSV2V227H45ML
350	220	227	25x35	J35	20	1.46	TYSV2V227J35ML
350	220	227	25x40	J40	20	1.51	TYSV2V227J40ML
350	220	227	30x25	K25	20	1.47	TYSV2V227K25ML
350	220	227	30x30	K30	20	1.52	TYSV2V227K30ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
350	270	277	22x45	H45	20	1.62	TYSV2V277H45ML
350	270	277	25x35	J35	20	1.65	TYSV2V277J35ML
350	270	277	25x40	J40	20	1.73	TYSV2V277J40ML
350	270	277	30x30	K30	20	1.71	TYSV2V277K30ML
350	270	277	30x35	K35	20	1.76	TYSV2V277K35ML
350	270	277	35x25	L25	20	1.72	TYSV2V277L25ML
350	330	337	22x50	H50	20	1.94	TYSV2V337H50ML
350	330	337	25x40	J40	20	1.88	TYSV2V337J40ML
350	330	337	25x45	J45	20	1.96	TYSV2V337J45ML
350	330	337	30x35	K35	20	1.93	TYSV2V337K35ML
350	330	337	30x40	K40	20	1.98	TYSV2V337K40ML
350	330	337	35x30	L30	20	1.96	TYSV2V337L30ML
350	390	397	25x45	J45	20	2.04	TYSV2V397J45ML
350	390	397	30x35	K35	20	2.12	TYSV2V397K35ML
350	390	397	30x40	K40	20	2.18	TYSV2V397K40ML
350	390	397	35x30	L30	20	2.19	TYSV2V397L30ML
350	390	397	35x35	L35	20	2.24	TYSV2V397L35ML
350	470	477	30x40	K40	20	2.41	TYSV2V477K40ML
350	470	477	30x45	K45	20	2.48	TYSV2V477K45ML
350	470	477	35x35	L35	20	2.43	TYSV2V477L35ML
350	470	477	35x40	L40	20	2.50	TYSV2V477L40ML
350	560	567	30x45	K45	20	2.60	TYSV2V567K45ML
350	560	567	35x35	L35	20	2.62	TYSV2V567L35ML
350	560	567	35x40	L40	20	2.69	TYSV2V567L40ML
350	680	687	35x45	L45	20	3.08	TYSV2V687L45ML
400	68	686	22x25	H25	20	0.72	TYSV2G686H25ML
400	82	826	22x25	H25	20	0.80	TYSV2G826H25ML
400	100	107	22x30	H30	20	0.94	TYSV2G107H30ML
400	100	107	25x25	J25	20	0.97	TYSV2G107J25ML
400	120	127	22x30	H30	20	1.04	TYSV2G127H30ML
400	120	127	22x35	H35	20	1.12	TYSV2G127H35ML
400	120	127	25x25	J25	20	1.08	TYSV2G127J25ML
400	150	157	22x35	H35	20	1.18	TYSV2G157H35ML
400	150	157	22x40	H40	20	1.25	TYSV2G157H40ML
400	150	157	25x30	J30	20	1.21	TYSV2G157J30ML
400	150	157	30x25	K25	20	1.24	TYSV2G157K25ML
400	180	187	22x40	H40	20	1.34	TYSV2G187H40ML
400	180	187	22x45	H45	20	1.40	TYSV2G187H45ML
400	180	187	25x35	J35	20	1.37	TYSV2G187J35ML
400	180	187	30x30	K30	20	1.52	TYSV2G187K30ML
400	220	227	22x45	H45	20	1.50	TYSV2G227H45ML
400	220	227	22x50	H50	20	1.56	TYSV2G227H50ML
400	220	227	25x35	J35	20	1.56	TYSV2G227J35ML
400	220	227	25x40	J40	20	1.62	TYSV2G227J40ML
400	220	227	30x30	K30	20	1.58	TYSV2G227K30ML
400	270	277	25x40	J40	20	1.70	TYSV2G277J40ML
400	270	277	25x45	J45	20	1.76	TYSV2G277J45ML
400	270	277	30x35	K35	20	1.73	TYSV2G277K35ML
400	270	277	35x30	L30	20	1.75	TYSV2G277L30ML
400	330	337	25x50	J50	20	1.90	TYSV2G337J50ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code					
400	330	337	30x40	K40	20	1.97	TYSV2G337K40ML
400	330	337	35x30	L30	20	1.95	TYSV2G337L30ML
400	330	337	35x35	L35	20	2.02	TYSV2G337L35ML
400	390	397	30x40	K40	20	2.15	TYSV2G397K40ML
400	390	397	30x45	K45	20	2.22	TYSV2G397K45ML
400	390	397	35x35	L35	20	2.17	TYSV2G397L35ML
400	390	397	35x40	L40	20	2.24	TYSV2G397L40ML
400	470	477	30x50	K50	20	2.40	TYSV2G477K50ML
400	470	477	35x40	L40	20	2.42	TYSV2G477L40ML
400	470	477	35x45	L45	20	2.48	TYSV2G477L45ML
400	560	567	35x45	L45	20	2.71	TYSV2G567L45ML
400	560	567	35x50	L50	20	2.78	TYSV2G567L50ML
400	680	687	35x50	L50	20	2.95	TYSV2G687L50ML
450	56	566	22x25	H25	20	0.68	TYSV2W566H25ML
450	68	686	22x25	H25	20	0.72	TYSV2W686H25ML
450	82	826	22x30	H30	20	0.87	TYSV2W826H30ML
450	82	826	25x25	J25	20	0.85	TYSV2W826J25ML
450	100	107	22x35	H35	20	1.00	TYSV2W107H35ML
450	100	107	25x25	J25	20	0.98	TYSV2W107J25ML
450	120	127	22x35	H35	20	1.05	TYSV2W127H35ML
450	120	127	22x40	H40	20	1.15	TYSV2W127H40ML
450	120	127	25x30	J30	20	1.09	TYSV2W127J30ML
450	120	127	30x25	K25	20	1.10	TYSV2W127K25ML
450	150	157	22x40	H40	20	1.20	TYSV2W157H40ML
450	150	157	25x35	J35	20	1.27	TYSV2W157J35ML
450	150	157	25x40	J40	20	1.35	TYSV2W157J40ML
450	150	157	30x30	K30	20	1.32	TYSV2W157K30ML
450	180	187	22x50	H50	20	1.51	TYSV2W187H50ML
450	180	187	25x40	J40	20	1.45	TYSV2W187J40ML
450	180	187	25x45	J45	20	1.50	TYSV2W187J45ML
450	180	187	30x30	K30	20	1.43	TYSV2W187K30ML
450	180	187	30x35	K35	20	1.49	TYSV2W187K35ML
450	180	187	35x30	L30	20	1.49	TYSV2W187L30ML
450	220	227	25x45	J45	20	1.65	TYSV2W227J45ML
450	220	227	25x50	J50	20	1.73	TYSV2W227J50ML
450	220	227	30x35	K35	20	1.63	TYSV2W227K35ML
450	220	227	30x40	K40	20	1.72	TYSV2W227K40ML
450	220	227	35x30	L30	20	1.61	TYSV2W227L30ML
450	270	277	30x40	K40	20	1.83	TYSV2W277K40ML
450	270	277	30x45	K45	20	1.95	TYSV2W277K45ML
450	270	277	35x35	L35	20	1.86	TYSV2W277L35ML
450	330	337	30x45	K45	20	2.10	TYSV2W337K45ML
450	330	337	30x50	K50	20	2.19	TYSV2W337K50ML
450	330	337	35x35	L35	20	2.06	TYSV2W337L35ML
450	330	337	35x40	L40	20	2.13	TYSV2W337L40ML
450	390	397	30x50	K50	20	2.24	TYSV2W397K50ML
450	390	397	35x45	L45	20	2.10	TYSV2W397L45ML
450	470	477	35x50	L50	20	2.63	TYSV2W477L50ML
500	56	566	22x25	H25	20	0.70	TYSV2H566H25ML
500	68	686	22x30	H30	20	0.82	TYSV2H686H30ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code					
500	82	826	22x35	H35	20	0.96	TYSV2H826H35ML
500	82	826	25x30	J30	20	0.97	TYSV2H826J30ML
500	100	107	22x40	H40	20	1.14	TYSV2H107H40ML
500	100	107	25x35	J35	20	1.15	TYSV2H107J35ML
500	120	127	22x45	H45	20	1.30	TYSV2H127H45ML
500	120	127	25x35	J35	20	1.25	TYSV2H127J35ML
500	120	127	30x30	K30	20	1.26	TYSV2H127K30ML
500	150	157	25x40	J40	20	1.48	TYSV2H157J40ML
500	150	157	30x35	K35	20	1.50	TYSV2H157K35ML
500	150	157	35x30	L30	20	1.34	TYSV2H157L30ML
500	180	187	25x50	J50	20	1.65	TYSV2H187J50ML
500	180	187	30x40	K40	20	1.60	TYSV2H187K40ML
500	180	187	35x30	L30	20	1.55	TYSV2H187L30ML
500	220	227	30x45	K45	20	1.90	TYSV2H227K45ML
500	220	227	35x35	L35	20	1.85	TYSV2H227L35ML
500	270	277	35x40	L40	20	1.95	TYSV2H277L40ML
500	330	337	35x45	L45	20	2.00	TYSV2H337L45ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

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									22x30	25x25		
5600	568					22x25				22x35			
6800	688					22x30	25x25			22x40	25x30	30x25	
8200	828	22x25				22x35	25x25			22x45	25x35	30x30	
10000	109	22x30	25x30			22x35	25x30	30x25		22x50	25x40	30x30	35x25
12000	129	22x30	25x25			22x40	25x35	30x30			25x45	30x35	35x30
15000	159	22x35	25x30	30x25		22x50	25x40	30x35				30x40	35x35
18000	189	22x40	25x35				25x45	30x35	35x30			30x45	35x40
22000	229	22x50	25x40	30x30				30x45	35x35				35x45

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									22x30	25x25		
1500	158									22x35	25x30	30x25	
1800	188					22x25				22x40	25x35	30x25	
2200	228	22x25				22x30	25x25			22x45	25x40	30x30	35x25
2700	278	22x30				22x35	25x30				25x45	30x35	35x30
3300	338	22x30	25x25			22x35	25x30	30x25			25x50	30x40	35x35
3900	398	22x35	25x30			22x45	25x35	30x30				30x45	35x35
4700	478	22x40	25x30	30x25		22x50	25x40	30x30	35x25			30x50	35x40
5600	568	22x45	25x35	30x30			25x45	30x35					35x45
6800	688	22x50	25x40	30x35			25x50	30x40	35x35				35x50
8200	828		25x45	30x35	35x30			30x45	35x35				
10000	109			30x40	35x35			30x50	35x40				
12000	129			30x50	35x40				35x50				
15000	159				35x45								

Product Availability Chart (continued)

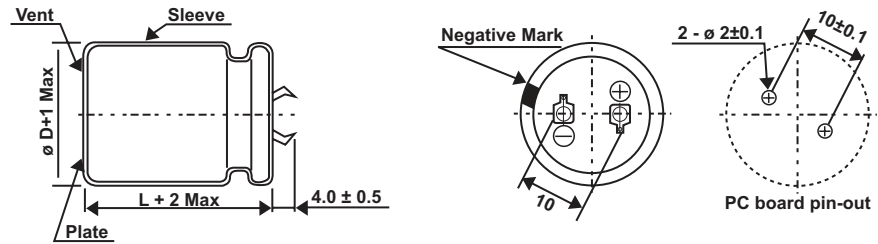
Capacitance		Rated Voltage (V.DC)																
		160				200				250				350				
µF	Code	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	Dia x L	
82	826														22x25			
100	107														22x25			
120	127														22x25	25x25		
															22x30			
150	157					22x25				22x25					22x30	25x25	30x25	
															22x35	25x30		
180	187									22x25					22x40	25x30	30x25	
																25x35		
220	227					22x25				22x25	25x25				22x40	25x35	30x25	
															22x45	25x40	30x30	
270	277	22x25				22x25				22x30	25x25				22x45	25x35	30x30	35x25
																25x40	30x35	
330	337	22x25				22x30	25x25			22x30	25x25				22x50	25x40	30x35	35x30
										22x35	25x30					25x45	30x40	
390	397	22x30				22x30	25x25			22x35	25x30	30x25				25x45	30x35	35x30
										22x40	25x35						30x40	35x35
470	477	22x30	25x25			22x35	25x30	30x25		22x40	25x35	30x30					30x40	35x35
										22x45							30x45	35x40
560	567	22x30	25x25			22x40	25x30	30x25		22x50	25x40	30x30	35x25				30x45	35x35
		22x35	25x30								25x45	30x35						35x40
680	687	22x35	25x30	30x25		22x45	25x35	30x30			25x45	30x35	35x30					35x45
		22x40									25x50	30x40						
820	827	22x40	25x30	30x25		22x50	25x40	30x30	35x30				30x40	35x35				
		22x45	25x35	30x30			25x45	30x35					30x45					
1000	108	22x50	25x40	30x30	35x30		25x45	30x35	35x30				30x50	35x40				
			25x45	30x35			25x50	30x40										
1200	128		25x45	30x35	35x30			30x40	35x35				35x45					
			25x50					30x45										
1500	158			30x40	35x35				30x50	35x40								
				30x45														
1800	188			30x45	35x35					35x45								
				30x50														
2200	228				35x45					35x50								

Capacitance		Rated Voltage (V.DC)													
		400				450				500					
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					22 x 25			
68	686	22 x 25					22 x 25					22 x 30			
82	826	22 x 25					22 x 30	25 x 25				22 x 35	25 x 30		
100	107	22 x 30	25 x 25				22 x 35	25 x 25				22 x 40	25 x 35		
120	127	22 x 30	25 x 25				22 x 35	25 x 30	30 x 25			22 x 45	25 x 35	30 x 30	
		22 x 35					22 x 40								
150	157	22 x 35	25 x 30	30 x 25			22 x 40	25 x 35	30 x 30				25 x 40	30 x 35	35 x 30
		22 x 40						25 x 40							
180	187	22 x 40	25 x 35	30 x 30			22 x 50	25 x 40	30 x 30	35 x 30			25 x 50	30 x 40	35 x 30
		22 x 45						25 x 45	30 x 35						
220	227	22 x 45	25 x 35	30 x 30				25 x 45	30 x 35	35 x 30				30 x 45	35 x 35
		22 x 50	25 x 40					25 x 50	30 x 40						
270	277		25 x 40	30 x 35	35 x 30				30 x 40	35 x 35					35 x 40
			25 x 45						30 x 45						
330	337		25 x 50	30 x 40	35 x 30				30 x 45	35 x 35					35 x 45
					35 x 35				30 x 50	35 x 40					
390	397			30 x 40	35 x 35				30 x 50	35 x 45					
				30 x 45	35 x 40										
470	477			30 x 50	35 x 40					35 x 50					
					35 x 45										
560	567				35 x 45										
					35 x 50										
680	687				35 x 50										

Characteristics - Electrical

															Test Conditions JIS C5101-4		
Operating Temp. Range	-40°C ~ +85°C													—			
Rated Voltage	DC 16 ~ 500V													85°C			
Capacitance	56μF ~ 22000μF													85°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	500	120Hz, 20°C		
	Tanδ max	0.40	0.30	0.25	0.20	0.15	0.15	0.15	0.15	0.15	0.20	0.20	0.20	0.20			
Low Temperature Characteristics	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450	500	120Hz		
	Impedance Ratio																
	Z(-25°C) / Z(+20°C)	4	3	3	2	2	2	4	4	4	4	8	8	8			
	Z(-40°C) / Z(+20°C)	15	10	8	6	6	5	4	8	10	16	18	20	20			
Load Life Test	Test Time	2000 Hrs													Specification satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2000 hrs at 85°C		
	Capacitance Change	Within ±20% of initial value															
	Dissipation Factor	Less than 200% of specified value															
	Leakage Current	Within specified value															
Shelf Life Test	Test Time	1000 hrs													Specifications satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 85°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements. Refer to JIS C 5102)		
	Capacitance Change	Within ±20% of initial value															
	Dissipation Factor	Less than 150% of specified value															
	Leakage Current	Within specified value															
Ripple Current & Frequency Multipliers	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 300~500	0.77			1.00			1.30			1.41			1.43			

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

TYSV	1C	828	H25	M	L
Common Part	Voltage Code	Capacitance	Case Code	Tolerance	Packaging
TYSV	1C (16V) 1E (25V) 1V (35V) 1H (50V) 1J (63V) 2A (100V) 2C (160V) 2D (200V) 2E (250V) 2V (350V) 2G (400V) 2W (450V) 2H (500V)	e.g. 828	e.g. H25	M (20%)	L = Loose (bulk)