

Type TYRH Series



Tyco Electronics radial leaded aluminum electrolytic capacitors are designed for through-hole PCB population where board space is restricted.

The TYRH series offers an extended temperature range from -40°C to +105°C.

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

Key Features

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

Standard Product Table

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code						
6.3	33	336	5x11	2.0	A11	23	54	TYRH0J336A11ML
6.3	47	476	5x11	2.0	A11	23	65	TYRH0J476A11ML
6.3	100	107	5x11	2.0	A11	23	95	TYRH0J107A11ML
6.3	220	227	5x11	2.0	A11	23	140	TYRH0J227A11ML
6.3	330	337	6.3x11	2.5	B11	23	190	TYRH0J337B11ML
6.3	470	477	6.3x11	2.5	B11	23	230	TYRH0J477B11ML
6.3	1000	108	8x11.5	3.5	C11	23	380	TYRH0J108C11ML
6.3	2200	228	10x20	5.0	D20	23	810	TYRH0J228D20ML
6.3	3300	338	10x20	5.0	D20	23	840	TYRH0J338D20ML
6.3	4700	478	12.5x20	5.0	E20	23	1090	TYRH0J478E20ML
6.3	6800	688	12.5x25	5.0	E25	23	1460	TYRH0J688E25ML
6.3	10000	109	16x25	7.5	F25	23	1990	TYRH0J109F25ML
6.3	22000	229	18x40	7.5	G40	23	3270	TYRH0J229G40ML
10	22	226	5x11	2.0	A11	20	49	TYRH1A226A11ML
10	33	336	5x11	2.0	A11	20	60	TYRH1A336A11ML
10	47	476	5x11	2.0	A11	20	76	TYRH1A476A11ML
10	100	107	5x11	2.0	A11	20	105	TYRH1A107A11ML
10	220	227	6.3x11	2.5	B11	20	175	TYRH1A227B11ML
10	330	337	6.3x11	2.5	B11	20	200	TYRH1A337B11ML
10	470	477	8x11.5	3.5	C11	20	290	TYRH1A477C11ML
10	1000	108	10x12.5	5.0	D12	20	460	TYRH1A108D12ML
10	2200	228	10x20	5.0	D20	20	760	TYRH1A228D20ML
10	3300	338	12.5x20	5.0	E20	20	1100	TYRH1A338E20ML
10	4700	478	12.5x25	5.0	E25	20	1260	TYRH1A478E25ML
10	6800	688	16x25	7.5	F25	20	1690	TYRH1A688F25ML
10	10000	109	16x35.5	7.5	F35	20	2400	TYRH1A109F35ML
16	10	106	5x11	2.0	A11	16	35	TYRH1C106A11ML
16	22	226	5x11	2.0	A11	16	58	TYRH1C226A11ML
16	33	336	5x11	2.0	A11	16	71	TYRH1C336A11ML
16	47	476	5x11	2.0	A11	16	85	TYRH1C476A11ML
16	100	107	5x11	2.0	A11	16	110	TYRH1C107A11ML
16	220	227	6.3x11	2.5	B11	16	190	TYRH1C227B11ML
16	330	337	8x11.5	3.5	C11	16	270	TYRH1C337C11ML
16	470	477	8x11.5	3.5	C11	16	310	TYRH1C477C11ML
16	1000	108	10x16	5.0	D16	16	560	TYRH1C108D16ML
16	2200	228	12.5x20	5.0	E20	16	920	TYRH1C228E20ML
16	3300	338	12.5x25	5.0	E25	16	1170	TYRH1C338E25ML
16	4700	478	16x25	7.5	F25	16	1480	TYRH1C478F25ML
16	6800	688	16x31.5	7.5	F31	16	1930	TYRH1C688F31ML
16	10000	109	18x35.5	7.5	G35	16	2640	TYRH1C109G35ML
25	4.7	475	5x11	2.0	A11	14	26	TYRH1E475A11ML
25	10	106	5x11	2.0	A11	14	43	TYRH1E106A11ML
25	22	226	5x11	2.0	A11	14	62	TYRH1E226A11ML
25	33	336	5x11	2.0	A11	14	76	TYRH1E336A11ML
25	47	476	5x11	2.0	A11	14	97	TYRH1E476A11ML
25	100	107	6.3x11	2.5	B11	14	142	TYRH1E107B11ML
25	220	227	8x11.5	3.5	C11	14	236	TYRH1E227C11ML
25	330	337	8x11.5	3.5	C11	14	310	TYRH1E337C11ML
25	330	337	10x12.5	5.0	D12	14	335	TYRH1E337D12ML
25	470	477	10x12.5	5.0	D12	14	380	TYRH1E477D12ML
25	1000	108	10x20	5.0	D20	14	680	TYRH1E108D20ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 105°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
	µF	Code						
25	2200	228	12.5x25	5.0	E25	14	1110	TYRH1E228E25ML
25	3300	338	16x25	7.5	F25	14	1440	TYRH1E338F25ML
25	4700	478	16x31.5	7.5	F31	14	1710	TYRH1E478F31ML
25	6800	688	18x35.5	7.5	G35	14	2160	TYRH1E688G35ML
35	4.7	475	5x11	2.0	A11	12	30	TYRH1V475A11ML
35	10	106	5x11	2.0	A11	12	46	TYRH1V106A11ML
35	22	226	5x11	2.0	A11	12	71	TYRH1V226A11ML
35	33	336	5x11	2.0	A11	12	75	TYRH1V336A11ML
35	47	476	5x11	2.0	A11	12	90	TYRH1V476A11ML
35	100	107	6.3x11	2.5	B11	12	150	TYRH1V107B11ML
35	220	227	8x11.5	3.5	C11	12	270	TYRH1V227C11ML
35	220	227	10x12.5	5.0	D12	12	300	TYRH1V227D12ML
35	330	337	10x12.5	5.0	D12	12	350	TYRH1V337D12ML
35	470	477	10x16	5.0	D16	12	460	TYRH1V477D16ML
35	1000	108	12.5x20	5.0	E20	12	810	TYRH1V108E20ML
35	2200	228	16x25	7.5	F25	12	1260	TYRH1V228F25ML
35	3300	338	16x35.5	7.5	F35	12	1610	TYRH1V338F35ML
35	4700	478	18x35.5	7.5	G35	12	1900	TYRH1V478G35ML
50	0.1	104	5x11	2.0	A11	10	3.2	TYRH1H104A11ML
50	0.22	224	5x11	2.0	A11	10	4.9	TYRH1H224A11ML
50	0.33	334	5x11	2.0	A11	10	6.0	TYRH1H334A11ML
50	0.47	474	5x11	2.0	A11	10	7.1	TYRH1H474A11ML
50	1.0	105	5x11	2.0	A11	10	13	TYRH1H105A11ML
50	2.2	225	5x11	2.0	A11	10	20	TYRH1H225A11ML
50	3.3	335	5x11	2.0	A11	10	30	TYRH1H335A11ML
50	4.7	475	5x11	2.0	A11	10	33	TYRH1H475A11ML
50	10	106	5x11	2.0	A11	10	50	TYRH1H106A11ML
50	22	226	5x11	2.0	A11	10	78	TYRH1H226A11ML
50	33	336	5x11	2.0	A11	10	90	TYRH1H336A11ML
50	47	476	6.3x11	2.5	B11	10	120	TYRH1H476B11ML
50	100	107	8x11.5	3.5	C11	10	188	TYRH1H107C11ML
50	220	227	10x16	5.0	D16	10	300	TYRH1H227D16ML
50	330	337	10x16	5.0	D16	10	410	TYRH1H337D16ML
50	470	477	10x20	5.0	D20	10	530	TYRH1H477D20ML
50	1000	108	12.5x25	5.0	E25	10	950	TYRH1H108E25ML
50	2200	228	16x35.5	7.5	F35	10	1470	TYRH1H228F35ML
50	3300	338	18x35.5	7.5	G35	10	1770	TYRH1H338G35ML
50	4700	478	22x40	10	H40	10	2340	TYRH1H478H40ML
63	10	106	5x11	2.0	A11	9	54	TYRH1J106A11ML
63	22	226	6.3x11	2.5	B11	9	86	TYRH1J226B11ML
63	33	336	6.3x11	2.5	B11	9	100	TYRH1J336B11ML
63	47	476	6.3x11	2.5	B11	9	130	TYRH1J476B11ML
63	100	107	10x12.5	5.0	D12	9	235	TYRH1J107D12ML
63	220	227	10x16	5.0	D16	9	335	TYRH1J227D16ML
63	330	337	10x20	5.0	D20	9	510	TYRH1J337D20ML
63	470	477	12.5x20	5.0	E20	9	640	TYRH1J477E20ML
63	1000	108	16x25	7.5	F25	9	930	TYRH1J108F25ML
63	2200	228	18x40	7.5	G40	9	2340	TYRH1J228G40ML
63	3300	338	22x40	10	H40	9	2510	TYRH1J338H40ML
63	4700	478	25x40	12.5	J40	9	3000	TYRH1J478J40ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 105°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance μ F	Code	Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
100	0.1	104	5x11	2.0	A11	8	4.0	TYRH2A104A11ML
100	0.22	224	5x11	2.0	A11	8	6.0	TYRH2A224A11ML
100	0.33	334	5x11	2.0	A11	8	8.0	TYRH2A334A11ML
100	0.47	474	5x11	2.0	A11	8	9.0	TYRH2A474A11ML
100	1.0	105	5x11	2.0	A11	8	15	TYRH2A105A11ML
100	2.2	225	5x11	2.0	A11	8	30	TYRH2A225A11ML
100	3.3	335	5x11	2.0	A11	8	31	TYRH2A335A11ML
100	4.7	475	5x11	2.0	A11	8	40	TYRH2A475A11ML
100	10	106	6.3x11	2.5	B11	8	54	TYRH2A106B11ML
100	22	226	6.3x11	2.5	B11	8	93	TYRH2A226B11ML
100	33	336	8x11.5	3.5	C11	8	130	TYRH2A336C11ML
100	47	476	10x12.5	5.0	D12	8	165	TYRH2A476D12ML
100	100	107	10x20	5.0	D20	8	265	TYRH2A107D20ML
100	220	227	12.5x20	5.0	E20	8	440	TYRH2A227E20ML
100	330	337	16x25	7.5	F25	8	540	TYRH2A337F25ML
100	470	477	16x31.5	7.5	F31	8	715	TYRH2A477F31ML
100	1000	108	18x40	7.5	G40	8	985	TYRH2A108G40ML
160	0.47	474	6.3x11	2.5	B11	12	13	TYRH2C474B11ML
160	1.0	105	6.3x11	2.5	B11	12	20	TYRH2C105B11ML
160	2.2	225	6.3x11	2.5	B11	12	29	TYRH2C225B11ML
160	3.3	335	6.3x11	2.5	B11	12	36	TYRH2C335B11ML
160	4.7	475	6.3x11	2.5	B11	12	43	TYRH2C475B11ML
160	10	106	10x12.5	5.0	D12	12	87	TYRH2C106D12ML
160	22	226	10x20	5.0	D20	12	158	TYRH2C226D20ML
160	33	336	10x20	5.0	D20	12	190	TYRH2C336D20ML
160	47	476	12.5x20	5.0	E20	12	265	TYRH2C476E20ML
160	100	107	12.5x25	5.0	E25	12	425	TYRH2C107E25ML
160	100	107	16x25	7.5	F25	12	485	TYRH2C107F25ML
160	220	227	16x31.5	7.5	F31	12	660	TYRH2C227F31ML
160	330	337	18x35.5	7.5	G35	12	820	TYRH2C337G35ML
200	0.47	474	6.3x11	2.5	B11	14	14	TYRH2D474B11ML
200	1.0	105	6.3x11	2.5	B11	14	21	TYRH2D105B11ML
200	2.2	225	6.3x11	2.5	B11	14	30	TYRH2D225B11ML
200	3.3	335	6.3x11	2.5	B11	14	39	TYRH2D335B11ML
200	4.7	475	8x11.5	3.5	C11	14	54	TYRH2D475C11ML
200	10	106	10x12.5	5.0	D12	14	94	TYRH2D106D12ML
200	22	226	10x20	5.0	D20	14	170	TYRH2D226D20ML
200	33	336	12.5x20	5.0	E20	14	240	TYRH2D336E20ML
200	47	476	12.5x25	5.0	E25	14	315	TYRH2D476E25ML
200	100	107	16x25	7.5	F25	14	485	TYRH2D107F25ML
200	220	227	18x35.5	7.5	G35	14	835	TYRH2D227G35ML
250	2.2	225	6.3x11	2.5	B11	17	35	TYRH2E225B11ML
250	3.3	335	8x11.5	3.5	C11	17	50	TYRH2E335C11ML
250	4.7	475	8x11.5	3.5	C11	17	60	TYRH2E475C11ML
250	10	106	10x16	5.0	D16	17	115	TYRH2E106D16ML
250	22	226	12.5x20	5.0	E20	17	255	TYRH2E226E20ML
250	33	336	12.5x20	5.0	E20	17	315	TYRH2E336E20ML
250	47	476	12.5x25	5.0	E25	17	350	TYRH2E476E25ML
250	100	107	16x35.5	7.5	F35	17	610	TYRH2E107F35ML
250	220	227	22x40	10	H40	17	945	TYRH2E227H40ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 105°C

Standard Product Table (continued)

Rated Voltage V.DC	Capacitance		Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%) [*]	Ripple Current (mA) [*]	Part Number
	µF	Code						
350	1.0	105	6.3x11	2.5	B11	20	23	TYRH2V105B11ML
350	2.2	225	8x11.5	3.5	C11	20	41	TYRH2V225C11ML
350	3.3	335	10x12.5	5.0	D12	20	59	TYRH2V335D12ML
350	4.7	475	10x16	5.0	D16	20	78	TYRH2V475D16ML
350	10	106	10x20	5.0	D20	20	125	TYRH2V106D20ML
350	22	226	12.5x20	5.0	E20	20	210	TYRH2V226E20ML
350	33	336	16x25	7.5	F25	20	325	TYRH2V336F25ML
350	47	476	16x31.5	7.5	F31	20	395	TYRH2V476F31ML
350	100	107	18x40	7.5	G40	20	575	TYRH2V107G40ML
400	1.0	105	8x11.5	3.5	C11	25	27	TYRH2G105C11ML
400	2.2	225	10x12.5	5.0	D12	25	48	TYRH2G225D12ML
400	3.3	335	10x16	5.0	D16	25	65	TYRH2G335D16ML
400	4.7	475	10x20	5.0	D20	25	86	TYRH2G475D20ML
400	10	106	12.5x20	5.0	E20	25	145	TYRH2G106E20ML
400	22	226	12.5x25	5.0	E25	25	235	TYRH2G226E25ML
400	22	226	16x25	7.5	F25	25	265	TYRH2G226F25ML
400	33	336	16x31.5	7.5	F31	25	360	TYRH2G336F31ML
400	47	476	16x35.5	7.5	F35	25	420	TYRH2G476F35ML
400	100	107	22x40	10	H40	25	595	TYRH2G107H40ML
450	1.0	105	8x11.5	3.5	C11	25	27	TYRH2W105C11ML
450	2.2	225	10x12.5	5.0	D12	25	48	TYRH2W225D12ML
450	3.3	335	10x16	5.0	D16	25	65	TYRH2W335D16ML
450	4.7	475	10x20	5.0	D20	25	86	TYRH2W475D20ML
450	10	106	12.5x20	5.0	E20	25	145	TYRH2W106E20ML
450	22	226	16x25	7.5	F25	25	265	TYRH2W226F25ML
450	33	336	16x31.5	7.5	F31	25	360	TYRH2W336F31ML
450	47	476	18x40	7.5	G40	25	515	TYRH2W476G40ML
450	100	107	22x45	10	H45	25	625	TYRH2W107H45ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 105°C

Product Availability Chart

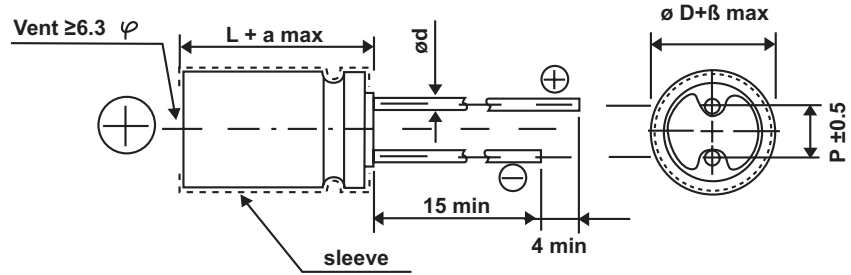
Capacitance		Rated Voltage (V.DC)													
		6.3		10		16		25		35		50		63	
µF	Code	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P
0.1	104											5x11	2.0		
0.22	224											5x11	2.0		
0.33	334											5x11	2.0		
0.47	474											5x11	2.0		
1.0	105											5x11	2.0		
2.2	225											5x11	2.0		
3.3	335											5x11	2.0		
4.7	475							5x11	2.0	5x11	2.0	5x11	2.0		
10	106					5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0
22	226			5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	6.3x11	2.5
33	336	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	6.3x11	2.5
47	476	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	5x11	2.0	6.3x11	2.5	6.3x11	2.5
100	107	5x11	2.0	5x11	2.0	5x11	2.0	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	10x12.5	5.0
220	227	5x11	2.0	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	8x11.5	3.5	10x16	5.0	10x16	5.0
										10x12.5	5.0				
330	337	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	8x11.5	3.5	10x12.5	5.0	10x16	5.0	10x20	5.0
								10x12.5	5.0						
470	477	6.3x11	2.5	8x11.5	3.5	8x11.5	3.5	10x12.5	5.0	10x16	5.0	10x20	5.0	12.5x20	5.0
1000	108	8x11.5	3.5	10x12.5	5.0	10x16	5.0	10x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5
2200	228	10x20	5.0	10x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5	16x35.5	7.5	18x40	7.5
3300	338	10x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5	16x35.5	7.5	18x35.5	7.5	22x40	10
4700	478	12.5x20	5.0	12.5x25	5.0	16x25	7.5	16x31.5	7.5	18x35.5	7.5	22x40	10	25x40	12.5
6800	688	12.5x25	5.0	16x25	7.5	16x31.5	7.5	18x35.5	7.5						
10000	109	16x25	7.5	16x35.5	7.5	18x35.5	7.5								
22000	229	18x40	7.5												

Capacitance		Rated Voltage (V.DC)													
		100		160		200		250		350		400		450	
µF	Code	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P	Dia x L	P
0.1	104	5x11	2.0												
0.22	224	5x11	2.0												
0.33	334	5x11	2.0												
0.47	474	5x11	2.0	6.3x11	2.5	6.3x11	2.5								
1.0	105	5x11	2.0	6.3x11	2.5	6.3x11	2.5			6.3x11	2.5	8x11.5	3.5	8x11.5	3.5
2.2	225	5x11	2.0	6.3x11	2.5	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	10x12.5	5.0	10x12.5	5.0
3.3	335	5x11	2.0	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	10x12.5	5.0	10x16	5.0	10x16	5.0
4.7	475	6.3x11	2.5	6.3x11	2.5	8x11.5	3.5	8x11.5	3.5	10x16	5.0	10x20	5.0	10x20	5.0
10	106	6.3x11	2.5	10x12.5	5.0	10x12.5	5.0	10x16	5.0	10x20	5.0	12.5x20	5.0	12.5x20	5.0
22	226	6.3x11	2.5	10x20	5.0	10x20	5.0	12.5x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5
												16x25	7.5		
33	336	8x11.5	3.5	10x20	5.0	12.5x20	5.0	12.5x20	5.0	16x25	7.5	16x31.5	7.5	16x31.5	7.5
47	476	10x12.5	5.0	12.5x20	5.0	12.5x25	5.0	12.5x25	5.0	16x31.5	7.5	16x35.5	7.5	18x40	7.5
100	107	10x20	5.0	12.5x25	5.0	16x25	7.5	16x35.5	7.5	18x40	7.5	22x40	10	22x45	10
				16x25	7.5										
220	227	12.5x25	5.0	16x31.5	7.5	18x35.5	7.5	22x40	10						
330	337	16x25	7.5	18x35.5	7.5										
470	477	16x31.5	7.5												
1000	108	18x40	7.5												
2200	228														
3300	338														
4700	478														
6800	688														
10000	109														
22000	229														

Characteristics - Electrical

																Test Cond. JIS C5101-4, Characteristic W	
Operating Temp. Range	-40°C ~ +105°C														—		
Rated Voltage	DC 6.3 ~ 450V														105°C		
Capacitance	0.1 ~ 22000µF														105°C		
Capacitance Tolerance	±20%														120Hz, 20°C		
Leakage Current	Rated Voltage	≤100V							>100V							C = rated capacitance (µF) V = rated DC working voltage (V) Temperature = 20°C	
	Time	after 2 minutes							after 5 minutes								
	Leakage Current	I = 0.01CV or 3 (µA) whichever is greater							CV ≤1000 I = 0.03CV + 15 (µA)			CV >1000 I = 0.02CV + 25 (µA)					
Dissipation Factor (Tanδ)	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	120Hz, 20°C	
	Tanδ max	0.23	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.14	0.17	0.20	0.25	0.25		
	When capacitance exceeds 1000µF, add 0.02 for every 1000µF increase																
Low Temperature Characteristics	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	120Hz	
	Impedance Ratio																
	Z(-25°C)/ Z(+20°C)	∅D<16	4	3	3	2	2	2	2	2	3	6	8	12	14		16
	Z(-40°C)/ Z(+20°C)	∅D<16	8	6	6	4	4	3	3	3	4	8	10	16	18		20
		∅D≥16	12	10	8	8	8	8	6	6							
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 105°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 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements for 160 ~ 450V (Refer to JIS C 5102)	
	Capacitance Change	Within ±20% of initial value															
	Dissipation Factor	Less than 200% of specified value															
	Leakage Current	Within specified value															
Ripple Current & Multipliers Frequency	Frequency (Hz)	60(50)			120			500			1k			10k and above			—
	C (µF) < 100	0.70			1.00			1.30			1.40			1.50			
	C (µF) 100~1000	0.75			1.00			1.20			1.30			1.35			
	C (µF) > 1000	0.80			1.00			1.10			1.12			1.15			

Dimensions



Case Code	Dimensions (mm)			
	Dia + β 0.5 max	L + a max	P±0.5	Lead dia
A11	5.0	11+1.0	2.0	0.5
B11	6.3	11+1.0	2.5	0.5
C11	8.0	11.5 +1.0	3.5	0.6
D12	10	12.5 +1.5	5.0	0.6
D16	10	16 +1.5	5.0	0.6
D20	10	20 +1.5	5.0	0.6
E20	12.5	20 +1.5	5.0	0.6
E25	12.5	25 +1.5	5.0	0.6
F25	16	25 +1.5	7.5	0.8
F31	16	31.5 +1.5	7.5	0.8
F35	16	35.5 +1.5	7.5	0.8
G35	18	35.5 +1.5	7.5	0.8
G40	18	40 +1.5	7.5	0.8
H40	22	40 +2.0	10	1.0
H45	22	45 +2.0	10	1.0
J40	25	40 +2.0	12.5	1.0

How to Order

TYRH	0J	336	A11	M	L
Common Part	Voltage Code	Capacitance	Case Code	Tolerance	Packaging
TYRH	0J (6.3V) 1A (10V) 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. 336	e.g. A11	M (20%)	L = Loose (bulk)