

Type TYRV 85°C Series

Key Features

- General purpose polarized aluminum foil electrolytic capacitors
- Radial leads
- Aluminum case with insulating sleeve
- 85°C temperature rating
- 2000 to 3000 hours load life assured
- RoHS Compliant



TE Connectivity's radial leaded aluminum electrolytic capacitors are designed for through-hole PCB population where board space is restricted.

The TYRV series offers a wide capacitance range at voltages from 6.3 to 450Vd.c.

Suitable for a broad range of general purpose filtering, bypassing, power supply coupling/decoupling, telecommunications and audio-video applications.

Characteristics - Electrical

																Test Cond. JIS C5101-4, Characteristic W														
Operating Temp. Range	-40°C ~ +85°C																									—				
Rated Voltage	DC 6.3 ~ 450V																									85°C				
Capacitance	0.1 ~ 22000μF																									85°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 = 0.02CV 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														
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)	øD<16	6	4	3	3	2	2	2	2	3	6	8	12	14	16														
		øD≥16	8	6	4	4	3	3	3	3																				
	Z(-40°C)/ Z(+20°C)	øD<16	10	8	6	6	4	3	3	3	4	8	10	16	18	20														
	øD≥16	18	16	12	10	8	8	6	6																					
Load Life Test	Test Time		2000 Hrs (3000 Hrs for dia ≥10mm)														Specification satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2000 / 3000 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 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											

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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	10x12.5	5.0	10x16	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
470	477	6.3x11	2.5	6.3x11	2.5	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	22x40	10						
22000	229	18x40	7.5	22x40	10										
		22x40	10												

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	5x11	2.0	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	10x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5
33	336	8x11.5	3.5	10x20	5.0	12.5x20	5.0	12.5x25	5.0	16x25	7.5	16x25	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	16x31.5	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
220	227	12.5x20	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														

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Standard Product Table

Rated Voltage V.DC	Capacitance μF	Code	Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
6.3	33	336	5x11	2.0	A11	23	72	TYRV0J336A11ML
6.3	47	476	5x11	2.0	A11	23	90	TYRV0J476A11ML
6.3	100	107	5x11	2.0	A11	23	130	TYRV0J107A11ML
6.3	220	227	5x11	2.0	A11	23	200	TYRV0J227A11ML
6.3	330	337	6.3x11	2.5	B11	23	270	TYRV0J337B11ML
6.3	470	477	6.3x11	2.5	B11	23	320	TYRV0J477B11ML
6.3	1000	108	8x11.5	3.5	C11	23	540	TYRV0J108C11ML
6.3	2200	228	10x20	5.0	D20	23	1000	TYRV0J228D20ML
6.3	3300	338	10x20	5.0	D20	23	1185	TYRV0J338D20ML
6.3	4700	478	12.5x20	5.0	E20	23	1545	TYRV0J478E20ML
6.3	6800	688	12.5x25	5.0	E25	23	1880	TYRV0J688E25ML
6.3	10000	109	16x25	7.5	F25	23	2330	TYRV0J109F25ML
6.3	22000	229	18x40	7.5	G40	23	3320	TYRV0J229G40ML
6.3	22000	229	22x40	10	H40	23	3700	TYRV0J229H40ML
10	22	226	5x11	2.0	A11	20	70	TYRV1A226A11ML
10	33	336	5x11	2.0	A11	20	84	TYRV1A336A11ML
10	47	476	5x11	2.0	A11	20	100	TYRV1A476A11ML
10	100	107	5x11	2.0	A11	20	145	TYRV1A107A11ML
10	220	227	6.3x11	2.5	B11	20	250	TYRV1A227B11ML
10	330	337	6.3x11	2.5	B11	20	290	TYRV1A337B11ML
10	470	477	6.3x11	2.5	B11	20	350	TYRV1A477B11ML
10	1000	108	10x12.5	5.0	D12	20	650	TYRV1A108D12ML
10	2200	228	10x20	5.0	D20	20	1070	TYRV1A228D20ML
10	3300	338	12.5x20	5.0	E20	20	1420	TYRV1A338E20ML
10	4700	478	12.5x25	5.0	E25	20	1780	TYRV1A478E25ML
10	6800	688	16x25	7.5	F25	20	2220	TYRV1A688F25ML
10	10000	109	16x35.5	7.5	F35	20	2670	TYRV1A109F35ML
10	22000	229	22x40	10	H40	20	3790	TYRV1A229H40ML
16	10	106	5x11	2.0	A11	16	49	TYRV1C106A11ML
16	22	226	5x11	2.0	A11	16	75	TYRV1C226A11ML
16	33	336	5x11	2.0	A11	16	90	TYRV1C336A11ML
16	47	476	5x11	2.0	A11	16	110	TYRV1C476A11ML
16	100	107	5x11	2.0	A11	16	160	TYRV1C107A11ML
16	220	227	6.3x11	2.5	B11	16	260	TYRV1C227B11ML
16	330	337	8x11.5	3.5	C11	16	370	TYRV1C337C11ML
16	470	477	8x11.5	3.5	C11	16	440	TYRV1C477C11ML
16	1000	108	10x16	5.0	D16	16	785	TYRV1C108D16ML
16	2200	228	12.5x20	5.0	E20	16	1295	TYRV1C228E20ML
16	3300	338	12.5x25	5.0	E25	16	1655	TYRV1C338E25ML
16	4700	478	16x25	7.5	F25	16	2090	TYRV1C478F25ML
16	6800	688	16x31.5	7.5	F31	16	2520	TYRV1C688F31ML
16	10000	109	18x35.5	7.5	G35	16	2920	TYRV1C109G35ML
16	22000	229	22x40	10	H40	16	3900	TYRV1C229H40ML
25	4.7	475	5x11	2.0	A11	14	31	TYRV1E475A11ML
25	10	106	5x11	2.0	A11	14	54	TYRV1E106A11ML
25	22	226	5x11	2.0	A11	14	80	TYRV1E226A11ML
25	33	336	5x11	2.0	A11	14	97	TYRV1E336A11ML
25	47	476	5x11	2.0	A11	14	115	TYRV1E476A11ML
25	100	107	6.3x11	2.5	B11	14	190	TYRV1E107B11ML
25	220	227	8x11.5	3.5	C11	14	320	TYRV1E227C11ML
25	330	337	8x11.5	3.5	C11	14	440	TYRV1E337C11ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Type TYRV 85°C Series

Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance μF	Code	Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
25	330	337	10x12.5	5.0	D12	14	470	TYRV1E337D12ML
25	470	477	10x12.5	5.0	D12	14	545	TYRV1E477D12ML
25	1000	108	10x20	5.0	D20	14	955	TYRV1E108D20ML
25	2200	228	12.5x25	5.0	E25	14	1540	TYRV1E228E25ML
25	3300	338	16x25	7.5	F25	14	1975	TYRV1E338F25ML
25	4700	478	16x31.5	7.5	F31	14	2420	TYRV1E478F31ML
25	6800	688	18x35.5	7.5	G35	14	2880	TYRV1E688G35ML
25	10000	109	22x40	10	H40	14	3440	TYRV1E109H40ML
35	4.7	475	5x11	2.0	A11	12	40	TYRV1V475A11ML
35	10	106	5x11	2.0	A11	12	58	TYRV1V106A11ML
35	22	226	5x11	2.0	A11	12	87	TYRV1V226A11ML
35	33	336	5x11	2.0	A11	12	108	TYRV1V336A11ML
35	47	476	5x11	2.0	A11	12	130	TYRV1V476A11ML
35	100	107	6.3x11	2.5	B11	12	210	TYRV1V107B11ML
35	220	227	8x11.5	3.5	C11	12	385	TYRV1V227C11ML
35	220	227	10x12.5	5.0	D12	12	420	TYRV1V227D12ML
35	330	337	10x12.5	5.0	D12	12	490	TYRV1V337D12ML
35	470	477	10x16	5.0	D16	12	740	TYRV1V477D16ML
35	1000	108	12.5x20	5.0	E20	12	1145	TYRV1V108E20ML
35	2200	228	16x25	7.5	F25	12	1785	TYRV1V228F25ML
35	3300	338	16x35.5	7.5	F35	12	2275	TYRV1V338F35ML
35	4700	478	18x35.5	7.5	G35	12	2700	TYRV1V478G35ML
50	0.1	104	5x11	2.0	A11	10	1.5	TYRV1H104A11ML
50	0.22	224	5x11	2.0	A11	10	3.5	TYRV1H224A11ML
50	0.33	334	5x11	2.0	A11	10	5.0	TYRV1H334A11ML
50	0.47	474	5x11	2.0	A11	10	7.0	TYRV1H474A11ML
50	1.0	105	5x11	2.0	A11	10	15	TYRV1H105A11ML
50	2.2	225	5x11	2.0	A11	10	29	TYRV1H225A11ML
50	3.3	335	5x11	2.0	A11	10	35	TYRV1H335A11ML
50	4.7	475	5x11	2.0	A11	10	42	TYRV1H475A11ML
50	10	106	5x11	2.0	A11	10	65	TYRV1H106A11ML
50	22	226	5x11	2.0	A11	10	95	TYRV1H226A11ML
50	33	336	5x11	2.0	A11	10	125	TYRV1H336A11ML
50	47	476	6.3x11	2.5	B11	10	165	TYRV1H476B11ML
50	100	107	8x11.5	3.5	C11	10	260	TYRV1H107C11ML
50	220	227	10x12.5	5.0	D12	10	455	TYRV1H227D12ML
50	330	337	10x16	5.0	D16	10	585	TYRV1H337D16ML
50	470	477	10x20	5.0	D20	10	755	TYRV1H477D20ML
50	1000	108	12.5x25	5.0	E25	10	1340	TYRV1H108E25ML
50	2200	228	16x35.5	7.5	F35	10	2075	TYRV1H228F35ML
50	3300	338	18x35.5	7.5	G35	10	2500	TYRV1H338G35ML
50	3300	338	22x40	10	H40	10	2785	TYRV1H338H40ML
50	4700	478	22x40	10	H40	10	3155	TYRV1H478H40ML
50	4700	478	25x40	12.5	J40	10	3300	TYRV1H478J40ML
63	10	106	5x11	2.0	A11	9	70	TYRV1J106A11ML
63	22	226	6.3x11	2.5	B11	9	115	TYRV1J226B11ML
63	33	336	6.3x11	2.5	B11	9	140	TYRV1J336B11ML
63	47	476	6.3x11	2.5	B11	9	170	TYRV1J476B11ML
63	100	107	10x12.5	5.0	D12	9	320	TYRV1J107D12ML
63	220	227	10x16	5.0	D16	9	490	TYRV1J227D16ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Type TYRV 85°C Series

Standard Product Table (cont.)

Rated Voltage V.DC	Capacitance μF	Code	Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
63	330	337	10x20	5.0	D20	9	710	TYRV1J337D20ML
63	470	477	12.5x20	5.0	E20	9	900	TYRV1J477E20ML
63	1000	108	16x25	7.5	F25	9	1560	TYRV1J108F25ML
63	2200	228	18x40	7.5	G40	9	2385	TYRV1J228G40ML
63	3300	338	22x40	10	H40	9	3000	TYRV1J338H40ML
63	4700	478	25x40	12.5	J40	9	3560	TYRV1J478J40ML
100	0.1	104	5x11	2.0	A11	8	3.0	TYRV2A104A11ML
100	0.22	224	5x11	2.0	A11	8	5.8	TYRV2A224A11ML
100	0.33	334	5x11	2.0	A11	8	8.8	TYRV2A334A11ML
100	0.47	474	5x11	2.0	A11	8	12	TYRV2A474A11ML
100	1.0	105	5x11	2.0	A11	8	22	TYRV2A105A11ML
100	2.2	225	5x11	2.0	A11	8	33	TYRV2A225A11ML
100	3.3	335	5x11	2.0	A11	8	40	TYRV2A335A11ML
100	4.7	475	5x11	2.0	A11	8	48	TYRV2A475A11ML
100	10	106	6.3x11	2.5	B11	8	80	TYRV2A106B11ML
100	22	226	6.3x11	2.5	B11	8	115	TYRV2A226B11ML
100	33	336	8x11.5	3.5	C11	8	145	TYRV2A336C11ML
100	47	476	10x12.5	5.0	D12	8	235	TYRV2A476D12ML
100	100	107	10x20	5.0	D20	8	370	TYRV2A107D20ML
100	220	227	12.5x20	5.0	E20	8	640	TYRV2A227E20ML
100	330	337	16x25	7.5	F25	8	825	TYRV2A337F25ML
100	470	477	16x31.5	7.5	F31	8	1070	TYRV2A477F31ML
100	1000	108	18x40	7.5	G40	8	2410	TYRV2A108G40ML
160	0.47	474	6.3x11	2.5	B11	12	15	TYRV2C474B11ML
160	1.0	105	6.3x11	2.5	B11	12	24	TYRV2C105B11ML
160	2.2	225	6.3x11	2.5	B11	12	34	TYRV2C225B11ML
160	3.3	335	6.3x11	2.5	B11	12	43	TYRV2C335B11ML
160	4.7	475	6.3x11	2.5	B11	12	51	TYRV2C475B11ML
160	10	106	10x12.5	5.0	D12	12	104	TYRV2C106D12ML
160	22	226	10x20	5.0	D20	12	189	TYRV2C226D20ML
160	33	336	10x20	5.0	D20	12	228	TYRV2C336D20ML
160	47	476	12.5x20	5.0	E20	12	318	TYRV2C476E20ML
160	100	107	12.5x25	5.0	E25	12	510	TYRV2C107E25ML
160	220	227	16x31.5	7.5	F31	12	792	TYRV2C227F31ML
160	330	337	18x35.5	7.5	G35	12	984	TYRV2C337G35ML
200	0.47	474	6.3x11	2.5	B11	14	16	TYRV2D474B11ML
200	1.0	105	6.3x11	2.5	B11	14	25	TYRV2D105B11ML
200	2.2	225	6.3x11	2.5	B11	14	37	TYRV2D225B11ML
200	3.3	335	6.3x11	2.5	B11	14	46	TYRV2D335B11ML
200	4.7	475	8x11.5	3.5	C11	14	64	TYRV2D475C11ML
200	10	106	10x12.5	5.0	D12	14	112	TYRV2D106D12ML
200	22	226	10x20	5.0	D20	14	204	TYRV2D226D20ML
200	33	336	12.5x20	5.0	E20	14	288	TYRV2D336E20ML
200	47	476	12.5x25	5.0	E25	14	378	TYRV2D476E25ML
200	100	107	16x25	7.5	F25	14	582	TYRV2D107F25ML
200	220	227	18x35.5	7.5	G35	14	1002	TYRV2D227G35ML
250	2.2	225	6.3x11	2.5	B11	17	42	TYRV2E225B11ML
250	3.3	335	8x11.5	3.5	C11	17	60	TYRV2E335C11ML
250	4.7	475	8x11.5	3.5	C11	17	72	TYRV2E475C11ML
250	10	106	10x16	5.0	D16	17	138	TYRV2E106D16ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Type TYRV 85°C Series

Standard Product Table (cont.)

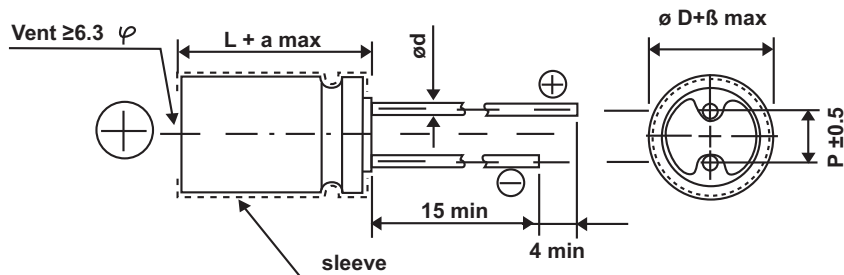
Rated Voltage V.DC	Capacitance		Case Size Dia x L	Lead Pitch	Case Code	Dissipation Factor (%)*	Ripple Current (mA)*	Part Number
250	22	226	10 x 20	5.0	D20	17	220	TYRV2E226D20ML
250	33	336	12.5 x 20	5.0	E20	17	310	TYRV2E336E20ML
250	47	476	12.5 x 25	5.0	E25	17	420	TYRV2E476E25ML
250	100	107	16 x 35.5	7.5	F35	17	732	TYRV2E107F35ML
250	220	227	22 x 40	10	H40	17	1134	TYRV2E227H40ML
350	1.0	105	6.3 x 11	2.5	B11	20	27	TYRV2V105B11ML
350	2.2	225	8 x 11.5	3.5	C11	20	49	TYRV2V225C11ML
350	3.3	335	10 x 12.5	5.0	D12	20	70	TYRV2V335D12ML
350	4.7	475	10 x 16	5.0	D16	20	93	TYRV2V475D16ML
350	10	106	10 x 20	5.0	D20	20	150	TYRV2V106D20ML
350	22	226	12.5 x 20	5.0	E20	20	255	TYRV2V226E20ML
350	33	336	16 x 25	7.5	F25	20	390	TYRV2V336F25ML
350	47	476	16 x 31.5	7.5	F31	20	474	TYRV2V476F31ML
350	100	107	18 x 40	7.5	G40	20	685	TYRV2V107G40ML
400	1.0	105	8 x 11.5	3.5	C11	25	32	TYRV2G105C11ML
400	2.2	225	10 x 12.5	5.0	D12	25	57	TYRV2G225D12ML
400	3.3	335	10 x 16	5.0	D16	25	78	TYRV2G335D16ML
400	4.7	475	10 x 20	5.0	D20	25	103	TYRV2G475D20ML
400	10	106	12.5 x 20	5.0	E20	25	174	TYRV2G106E20ML
400	22	226	12.5 x 25	5.0	E25	25	280	TYRV2G226E25ML
400	22	226	16 x 25	7.5	F25	25	318	TYRV2G226F25ML
400	33	336	16 x 25	7.5	F25	25	390	TYRV2G336F25ML
400	47	476	16 x 31.5	7.5	F31	25	474	TYRV2G476F31ML
400	100	107	22 x 40	10	H40	25	710	TYRV2G107H40ML
450	1.0	105	8 x 11.5	3.5	C11	25	32	TYRV2W105C11ML
450	2.2	225	10 x 12.5	5.0	D12	25	57	TYRV2W225D12ML
450	3.3	335	10 x 16	5.0	D16	25	78	TYRV2W335D16ML
450	4.7	475	10 x 20	5.0	D20	25	103	TYRV2W475D20ML
450	10	106	12.5 x 20	5.0	E20	25	174	TYRV2W106E20ML
450	22	226	16 x 25	7.5	F25	25	354	TYRV2W226F25ML
450	33	336	16 x 31.5	7.5	F31	25	435	TYRV2W336F31ML
450	47	476	18 x 40	7.5	G40	25	600	TYRV2W476G40ML
450	100	107	22 x 45	10	H45	25	750	TYRV2W107H45ML

* DF measured at 120Hz, 20°C

* RC measured at 120Hz, 85°C

Type TYRV 85°C Series

Dimensions



Case Code	Dimensions (mm)			
	Dia + β 0.5 max	L + a max	P $\pm$ 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

TYRV	0J	336	A11	M	L
Common Part	Voltage Code	Capacitance	Case Code	Tolerance	Packaging
TYRV	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)

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