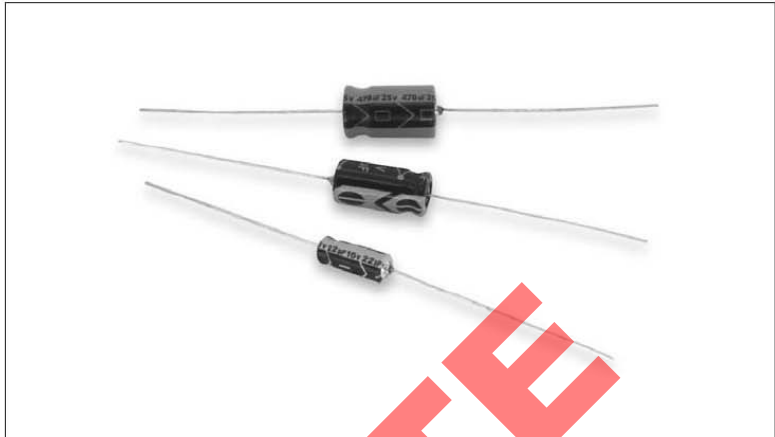


Type TYAV 85°C Series

Key Features

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



TE Connectivity's axial lead aluminum electrolytic capacitors are designed for through-hole PCB population where mounting height is restricted. The TYAV series offers a wide capacitance range at voltages from 6.3 to 450Vd.c. Suitable for a broad range of general purpose filtering, by-passing, 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	0.17	0.15	0.12	0.10	0.09	0.08	0.12	0.14	0.17	0.20	0.24	0.24		
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
	Z(+20°C)/ Z(-40°C)	øD<16	10	8	6	6	4	3	3	3	4	8	10	—	—		—
	Z(+20°C)/ Z(+20°C)	øD≥16	18	16	12	10	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 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			—
	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			