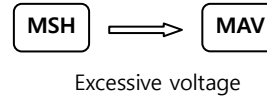




MAV series

Excessive voltage RoHS Compliant

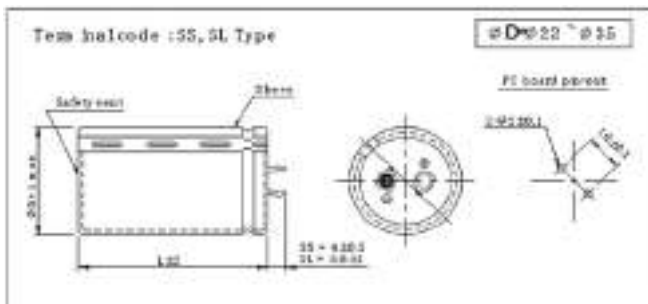
- 105 °C 2,000Hrs assured.
- Improved safety features for abnormally excessive voltage
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

Item	Characteristics	
Rated Voltage Range	200 Vdc	400, 420 Vdc
Operating Temperature Range	-25 ~ +105 °C	-25 ~ +105 °C
Capacitance Tolerance	±20% (M) (at 20 °C, 120Hz)	
Leakage Current	I=0.03CV or 3mA whichever is smaller Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(Vdc) (at 20 °C, 5min)	
Dissipation Factor(Tanδ)	Rated voltage (Vdc)	200 ~ 400 450
	Tanδ (max.)	0.20 0.20
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	200 ~ 250 400 ~ 450
	Z(-25°C)/Z(20°C)	8 8
	Z(-40°C)/Z(20°C)	- -
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 105°C3,000hrs. Capacitance change ≤±20%of the initial value Tan δ ≤200% of the initial specified value Leakage current ≤The initial specified value	
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤±20% of the initial value Tanδ ≤200% of the initial specified value Leakage current ≤The initial specified value	

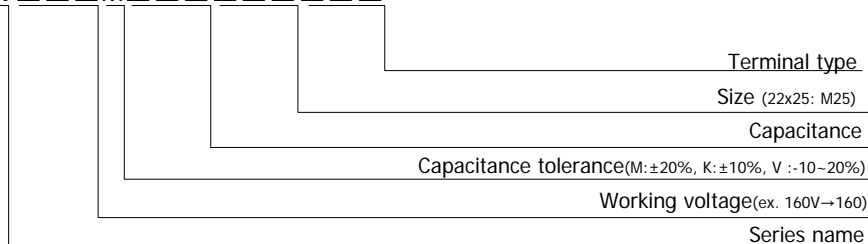
Dimensions



- Printed white color letter on brown sleeve
- The standard design has no bottom plate.

Code numbering system

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
M A V □ □ □ M □ □ □ □ □ □ □ □ □ □



Ø22	M
Ø25	N
Ø30	O
Ø35	P

Rated ripple current multipliers

Vdc \ Freq. (Hz)	50	60	120	1K	10K
200	0.85	0.88	1.00	1.15	1.20
400, 450	0.88	0.90	1.00	1.10	1.15



MAV series

■ Standard Ratings Note1) Ripple current = mA rms/105°C, 120Hz

VV (Vdc)	Cap (µF)	Size ØxL (mm)	Tan δ	Ripple ¹⁾	Code No
200	47	22 x 20	0.20	350	MAV200□470M20□□□
	100	22 x 20	0.20	500	MAV200□101M20□□□
	150	22 x 20	0.20	650	MAV200□151M20□□□
	180	22 x 25	0.20	700	MAV200□181M25□□□
		30 x 20	0.20	700	MAV200□181O20□□□
	220	22 x 25	0.20	740	MAV200□221M25□□□
		22 x 30	0.20	900	MAV200□271M30□□□
	270	25 x 25	0.20	850	MAV200□271N25□□□
		35 x 20	0.20	1,100	MAV200□271P20□□□
	330	22 x 30	0.20	1,050	MAV200□331M30□□□
		25 x 30	0.20	1,050	MAV200□331N30□□□
		30 x 25	0.20	1,050	MAV200□331O25□□□
	390	22 x 35	0.20	1,200	MAV200□391M35□□□
		25 x 30	0.20	1,200	MAV200□391N30□□□
		30 x 25	0.20	1,200	MAV200□391O25□□□
	470	22 x 40	0.20	1,300	MAV200□471M40□□□
		25 x 35	0.20	1,300	MAV200□471N35□□□
		30 x 25	0.20	1,300	MAV200□471O25□□□
	560	22 x 45	0.20	1,500	MAV200□561M45□□□
		25 x 40	0.20	1,500	MAV200□561N40□□□
30 x 35		0.20	1,500	MAV200□561O35□□□	
35 x 25		0.20	1,500	MAV200□561P25□□□	
680	25 x 50	0.20	1,700	MAV200□681N50□□□	
	30 x 40	0.20	1,700	MAV200□681O40□□□	
	35 x 30	0.20	1,700	MAV200□681P30□□□	
820	30 x 45	0.20	1,950	MAV200□821O45□□□	
	35 x 35	0.20	1,950	MAV200□821P35□□□	
1,000	30 x 50	0.20	2,100	MAV200□102O50□□□	
	35 x 40	0.20	2,100	MAV200□102P40□□□	
1,200	35 x 50	0.20	2,300	MAV200□122P50□□□	
400	33	22 x 20	0.20	220	MAV400□330M20□□□
	39	22 x 20	0.20	300	MAV400□390M20□□□
	47	22 x 25	0.20	340	MAV400□470M25□□□
		25 x 20	0.20	340	MAV400□470N20□□□
		30 x 20	0.20	390	MAV400□470O20□□□
	56	22 x 25	0.20	370	MAV400□560M25□□□
		25 x 20	0.20	370	MAV400□560N20□□□
	68	22 x 25	0.20	390	MAV400□680M25□□□
		25 x 25	0.20	440	MAV400□680N25□□□
	82	30 x 20	0.20	490	MAV400□680O20□□□
		22 x 30	0.20	500	MAV400□820M30□□□
		25 x 25	0.20	500	MAV400□820N25□□□
	100	30 x 20	0.20	500	MAV400□820O20□□□
		25 x 35	0.20	530	MAV400□101N35□□□
		25 x 30	0.20	530	MAV400□101N30□□□
	120	30 x 25	0.20	530	MAV400□101O25□□□
		35 x 20	0.20	540	MAV400□101P20□□□
		22 x 40	0.20	590	MAV400□121M40□□□
	150	25 x 30	0.20	590	MAV400□121N30□□□
		30 x 25	0.20	600	MAV400□121O25□□□
		22 x 45	0.20	700	MAV400□151M45□□□
	180	25 x 35	0.20	700	MAV400□151N35□□□
		30 x 30	0.20	700	MAV400□151O30□□□
		35 x 25	0.20	700	MAV400□151P25□□□
	220	22 x 50	0.20	800	MAV400□181M50□□□
		25 x 40	0.20	800	MAV400□181N40□□□
		30 x 30	0.20	800	MAV400□181O30□□□
	270	35 x 25	0.20	800	MAV400□181P25□□□
		25 x 45	0.20	900	MAV400□221N45□□□
	330	30 x 35	0.20	900	MAV400□221O35□□□

VV (Vdc)	Cap (µF)	Size ØxL (mm)	Tan δ	Ripple ¹⁾	Code No
400	220	35 x 30	0.20	900	MAV400□221P30□□□
	270	30 x 40	0.20	960	MAV400□271O40□□□
		35 x 35	0.20	960	MAV400□271P35□□□
	330	30 x 50	0.20	1,180	MAV400□331O50□□□
		35 x 40	0.20	1,180	MAV400□331P40□□□
	390	35 x 45	0.20	1,300	MAV400□391P45□□□
470	35 x 50	0.20	1,400	MAV400□471P50□□□	
420	33	22 x 25	0.20	250	MAV420□330M25□□□
	47	22 x 25	0.20	350	MAV420□470M25□□□
	56	22 x 25	0.20	380	MAV420□560M25□□□
	68	22 x 30	0.20	450	MAV420□680M30□□□
		25 x 25	0.20	450	MAV420□680N25□□□
	82	22 x 35	0.20	640	MAV420□820M35□□□
		25 x 30	0.20	640	MAV420□820N30□□□
	100	22 x 40	0.20	690	MAV420□101M40□□□
		25 x 30	0.20	690	MAV420□101N30□□□
		30 x 25	0.20	690	MAV420□101O25□□□
	120	22 x 45	0.20	750	MAV420□121M45□□□
		25 x 35	0.20	750	MAV420□121N35□□□
		30 x 30	0.20	750	MAV420□121O30□□□
		35 x 25	0.20	750	MAV420□121P25□□□
	150	25 x 40	0.20	820	MAV420□151N40□□□
		30 x 30	0.20	820	MAV420□151O30□□□
		35 x 25	0.20	820	MAV420□151P25□□□
	180	25 x 45	0.20	900	MAV420□181N45□□□
		30 x 25	0.20	900	MAV420□181O25□□□
		35 x 30	0.20	900	MAV420□181P30□□□
	220	30 x 40	0.20	1,000	MAV420□221O40□□□
35 x 35		0.20	1,000	MAV420□221P35□□□	
270	30 x 45	0.20	1,100	MAV420□271O45□□□	
	35 x 40	0.20	1,100	MAV420□271P40□□□	
330	35 x 45	0.20	1,200	MAV420□331P45□□□	