

MV-AX Series Low impedance, Long life



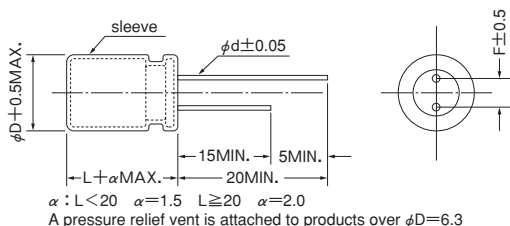
MV-AX series is low impedance and long life.
It is suitable for switching power supply, noise limiter etc.
Solvent proof (within 5 minutes).

AX Low impedance Long Life ← CA

Specifications

Items		Specifications								
Rated voltage (V)		6.3	10	16	25	35	50	63	100	
Category temperature range (°C)		-55 to +105							-40 to +105	
Capacitance tolerance (%)		±20							(120Hz/20°C)	
Tangent of loss angle (tanδ) (MAX.)		0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.10	
		When nominal capacitance exceeds 1000 µF, add 0.02 to the value above for each 1000 µF increase. (120Hz/20°C)								
Leakage current (L.C.) (µA/after 2 min.) (MAX.)		The greater value of either 0.01CV or 3								
impedance (120Hz) ratio at low temperature (MAX.)	Z-40°C/Z20°C	3	2	2	2	2	2	2	2	
	Z-55°C/Z20°C	4	4	3	3	3	2	2	—	
Endurance 105°C rated voltage applied.	Test (hrs.)	φ 5 : 2500, φ 6.3 : 3000, φ 8×11.5, 12.5L : 3500, φ 8×15, 20L : 4500, φ 10 : 5000, φ 12.5 : 7000, φ 16 to φ 18 : 10000								
	ΔC/C	Within ±20% of the initial value								
	tan δ	≤ Twice the initial standard								
	L.C.	≤ The initial standard								

Dimensions



(Unit : mm)

φ D	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8

Size List, Impedance, Maximum Permissible Ripple Current

Case Size φDXL (mm)	6.3			10		
	Capacitance (µF)	Impedance (Ω MAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Capacitance (µF)	Impedance (Ω MAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
5×11	150	0.42	190	100	0.42	190
6.3×11	270	0.22	300	220	0.22	300
8×11.5	470	0.11	560	330	0.11	560
8×12.5	560	0.11	570	390	0.11	570
8×15	680	0.085	730	470	0.085	730
8×20	1000	0.069	800	※1 680	0.069	800
10×12.5	820	0.085	800	680	0.085	800
10×16	1200	0.062	1050	820	0.062	1050
10×20	1500	0.044	1250	1200	0.044	1250
10×22	1800	0.039	1450	1500	0.039	1450
12.5×20	2700	0.038	1600	2200	0.038	1600
12.5×25	3900	0.029	1800	2700	0.029	1800
16×25	5600	0.022	2100	3900	0.022	2100
16×31.5	8200	0.018	2350	5600	0.018	2350
16×35	10000	0.018	2550	6800	0.018	2550
18×35.5	12000	0.018	2800	8200	0.018	2800

※1 ; Series symbol is AXL

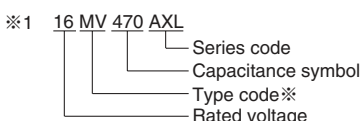
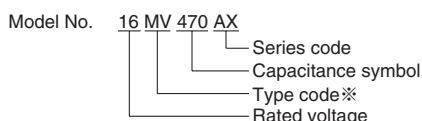
MV-AX Series

Case Size φD×L (mm)	16			25		
	Capacitance	impedance (Ω MAX.)	Ripple current (mArms)	Capacitance	Impedance (Ω MAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)
5×11	68	0.42	190	47	0.42	190
6.3×11	150	0.22	300	100	0.22	300
8×11.5	220	0.11	560	150	0.11	560
8×12.5	270	0.11	570	180	0.11	570
8×15	330	0.085	730	220	0.085	730
8×20	※1 470	0.069	800	330	0.069	800
10×12.5	470	0.085	800	270	0.085	800
10×16	560	0.062	1050	390	0.062	1050
10×20	820	0.044	1250	560	0.044	1250
10×22	1000	0.039	1450	680	0.039	1450
12.5×20	1200	0.038	1600	1000	0.038	1600
12.5×25	1800	0.029	1800	1200	0.029	1800
16×25	2700	0.022	2100	1800	0.022	2100
16×31.5	3900	0.018	2350	2700	0.018	2350
16×35	4700	0.018	2550	3300	0.018	2550
18×35.5	5600	0.018	2800	3900	0.018	2800

Case Size φD×L (mm)	35			50		
	Capacitance	impedance (Ω MAX.)	Ripple current (mArms)	Capacitance	Impedance (Ω MAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)
5×11	4.7	1.2	115	0.47 to 4.7	5.5 to 2.0	20 to 90
5×11	10	0.90	140	10	1.7	110
5×11	22	0.42	190	15	1.2	130
5×11	33	0.42	190	22	0.70	160
6.3×11	68	0.22	300	47	0.43	220
8×11.5	100	0.11	560	68	0.26	360
8×12.5	120	0.11	570	82	0.24	400
8×15	150	0.085	730	100	0.18	500
8×20	※1 220	0.069	800	150	0.16	650
10×12.5	220	0.085	800	120	0.16	550
10×16	270	0.062	1050	180	0.12	760
10×20	330	0.044	1250	270	0.088	950
10×22	470	0.039	1450	330	0.072	1000
12.5×20	680	0.038	1600	470	0.059	1200
12.5×25	1000	0.029	1800	560	0.045	1400
16×25	1500	0.022	2100	1000	0.039	1750
16×31.5	2200	0.018	2350	1200	0.025	2100
16×35	※1 2200	0.018	2550	1500	0.025	2300
18×35.5	2700	0.018	2800	1800	0.024	2400

Case Size φD×L (mm)	63			100		
	Capacitance	impedance (Ω MAX.)	Ripple current (mArms)	Capacitance	Impedance (Ω MAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)
5×11	18	1.6	140	5.6	2.7	120
6.3×11	33	0.90	200	12	1.4	170
8×11.5	68	0.52	275	22	0.81	230
8×12.5	※1 68	0.47	300	※1 22	0.79	250
8×15	82	0.34	360	27	0.64	295
8×20	※1 120	0.21	510	※1 39	0.36	400
10×12.5	120	0.26	420	39	0.39	360
10×16	150	0.20	525	47	0.35	420
10×20	220	0.15	765	68	0.24	630
10×22	270	0.12	840	82	0.21	700
12.5×20	330	0.10	960	100	0.15	800
12.5×25	470	0.064	1200	150	0.11	920
16×25	680	0.052	1500	220	0.071	1100
16×31.5	1000	0.042	1750	330	0.049	1490
16×35	1200	0.036	1920	390	0.043	1630
18×35.5	1500	0.033	2000	470	0.038	1700

※1 ; Series symbol is AXL



※Type code

Environment-friendly capacitors	Sn-Pb lead finishing
Pb free lead finishing	PVC sleeve
Pb free PET sleeve	
ME	MV

Radial Lead Type