

## ME-AX Series

Low Impedance

Long Life

AX

Low Impedance

Long Life

CA

### Feature

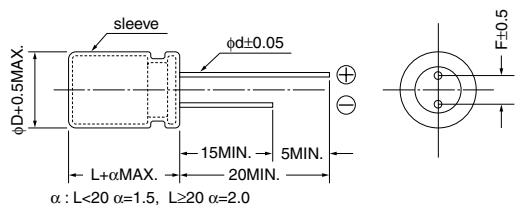
This series has low impedance, long life.  
Suitable for smoothing circuit of switching power supply.  
Solvent proof (within 5 minutes).



## Specifications

Items		Specifications							
Rated voltage (V)		6.3	10	16	25	35	50	63	100
Category temperature range (°C)		-55 to +105							
Capacitance tolerance (%)		±20 (120Hz/20°C)							
Tangent of loss angle (tanδ) (MAX.) (120Hz/20°C)		0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.10
		When rated capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.							
Leakage current (L.C.) (μA/after 2min.) (MAX.)		The greater value of either 0.01CV or 3							
Impedance (120Hz) ratio at low temperature (MAX.)	Z <sub>-40°C</sub> /Z <sub>20°C</sub>	3	2	2	2	2	2	2	2
	Z <sub>-55°C</sub> /Z <sub>20°C</sub>	4	4	3	3	3	2	2	-
Endurance 105°C rated voltage applied	Test	φ5 : 2500hrs., φ6.3 : 3000hrs., φ8 x 11.5, 12.5L : 3500hrs., φ8 x 15, 20L : 4500hrs., φ10 : 5000hrs., φ12.5 : 7000hrs., φ16 to φ18 : 10000hrs.							
	ΔC/C	Within ±20% of the initial value							
	tanδ	≤ Twice the initial specified value							
	L.C.	≤ The initial specified value							

## Dimensions



A pressure relief vent is attached to products over φD=6.3

(Unit : mm)

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8

## Size List, Impedance, Rated Ripple Current

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

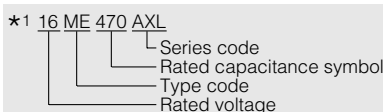
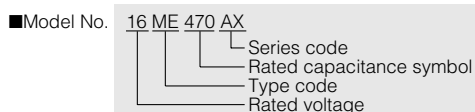
\*1 ; Series symbol is AXL

## Size List, Impedance, Rated Ripple Current

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

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

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



\*1 ; Series symbol is AXL