MV-GX/AX Series

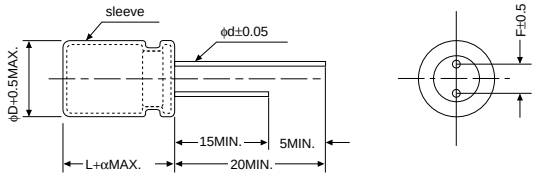
Low impedance, Long life (solvent proof)

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

■ Specifications

Items		Specifications						
Rated voltage (V)		6.3	10	16	25	35	50	63
Operating temperature range (°C)		–55 to +105						
Capacitance tolerance (%)		±20 (120Hz)						
Tangent of loss angle (tan δ) (MAX.)		0.22	0.19	0.16	0.14	0.12	0.10	0.10
		0.02 to be added to the above value every time nominal capacitance exceeds 1000μF. (120Hz)						
Leakage current (L.C.)(μA/after 2min.)(MAX.)		The greater value of either 0.01CV or 3						
Impedance (120Hz) ratio at low temperature (MAX.)	$Z_{-40°C}/Z_{20°C}$	3	2	2	2	2	2	2
	$Z_{-55°C}/Z_{20°C}$	4	4	3	3	3	2	2
High-temperature load 105°C rated voltage applied	Test (hrs.)	φ5 : 2500, φ6.3 : 3000, φ8 : 3500 to 4500, φ10 : 5000, φ12.5 : 7000, φ16 to φ18 : 10000						
	ΔC/C	Within ±25% of the initial value						
	tan δ	≤ Twice the initial standard						
	L.C.	≤ The initial standard						
Other characteristics		Conform to IEC 384-4						

■ Dimensions

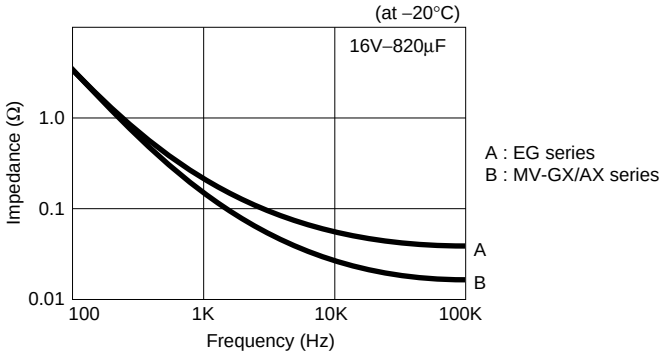


α : L<20 α=1.5, L≥20 α=2.0
A pressure relief vent is attached to products over φD=8

(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

■ Impedance VS. Frequency



■ Size List

V / Case Size (φD×Lmm)	6.3 Capacitance (μF)	6.3 Impedance (ΩMAX.) (20°C/100kHz)	6.3 Ripple current (mArms) (105°C/10k to 200kHz)	10 Capacitance (μF)	10 Impedance (ΩMAX.) (20°C/100kHz)	10 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	＊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

＊ ; Series symbpl is GXL/AXL

SANYO

GX/AX ⇦ Low impedance EG・AG
Long Life EZ・AZ

MV-GX/AX
Series

V / Case Size (φD×Lmm)	16			25		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (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	＊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

V / Case Size (φD×Lmm)	35			50		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
5×11	4.7	1.2	115	4.7	2.0	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	＊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	＊2200	0.018	2550	1500	0.025	2300
18×35.5	2700	0.018	2800	1800	0.024	2400

V / Case Size (φD×Lmm)	63		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
5×11	18	1.6	140
6.3×11	33	0.90	200
8×11.5	68	0.52	275
8×12.5	＊ 68	0.47	300
8×15	82	0.34	360
8×20	＊120	0.21	510
10×12.5	120	0.26	420
10×16	150	0.20	525
10×20	220	0.15	765
10×22	270	0.12	840
12.5×20	330	0.10	960
12.5×25	470	0.064	1200
16×25	680	0.052	1500
16×31.5	1000	0.042	1750
16×35	1200	0.036	1920
18×35.5	1500	0.033	2000

＊; Series symbol is GXL/AXL

Model No.

16MV470GX/AX
- 470μF, nominal capacitance
- 16V, rated voltage

＊16MV470GXL/AXL
- 470μF, nominal capacitance
- 16V, rated voltage