

ARMC Series

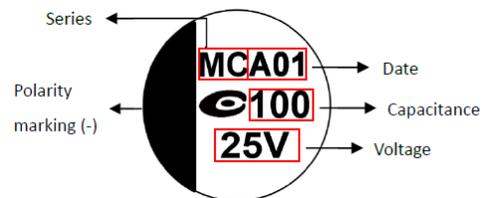
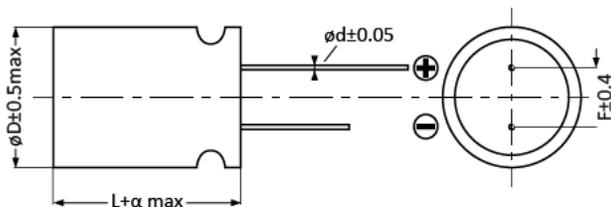
- Standard DIP type
- High reliability and high voltage are realized by hybrid electrolyte
- Rated Voltage:16~80V
- Endurance 4000 hours at 125°C
- For high temperature and high reliability applications
- RoHS Compliant



Specification

Category Temperature Range	-55~+125°C	Rated Voltage Range	16 to 80Vdc						
Rated Capacitance Range	22 to 680 (μF)	Capacitance Tolerance	±20% (M)						
Surge Voltage	Rated voltage X 1.15	Dissipation Factor (at 20°C 120Hz)	Rated Voltage (V)	16	25	35	50	63	80
			tan δ(max)	0.16	0.14	0.12	0.1	0.08	0.08
Leakage Current	Shall not exceed values shown in standard ratings (at 20°C after 2 mins.)								
Endurance	125°C, 4000 hours, apply the rated ripple current without exceeding the rated voltage								
	Appearance	No significant damage							
	Capacitance Change	≤ ±30% of the initial value							
	DF(tanδ)	≤ 200% of the initial specified value							
	ESR	≤ 200% of the initial specified value							
	Leakage current	≤ The initial specified value							
Damp Heat (Steady State)	60 to 90% RH, 1000 hours, rated voltage applied								
	Appearance	No significant damage							
	Capacitance Change	≤ ±20% of the initial value							
	DF(tanδ)	≤ 200% of the initial specified value							
	ESR	≤ 200% of the initial specified value							
	Leakage current	≤ The initial specified value							
Shelf Life	After storage for 1,000 hours at 125±2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)								
	Appearance	No significant damage							
	Capacitance Change	≤ ±30% of the initial value							
	DF(tanδ)	≤ 200% of the initial specified value							
	ESR	≤ 200% of the initial specified value							
	Leakage current	≤ The initial specified value							

Dimensions and Marking



Size code	φD±0.5 (mm)	L (mm)	α (mm)	φd±0.05 (mm)	F±0.4 (mm)	H±0.3 (mm)
06X7	6.3	7.0	-0.5~1	0.5	2.5	3.2
08X8	8.0	8.0	-0.5~1	0.6	3.5	3.2
08A2	8.0	12.0	-0.5~1	0.6	3.5	3.2
10X9	10.0	9.0	-0.5~1	0.6	5.0	3.2
10A2	10.0	12.0	-0.5~1	0.6	5.0	3.2

ARMC Series

Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	tanδ	ESR (mΩmax/ 20°C, 100kHz)	Rated Ripple Current (mArms/ 125°C /100kHz)	Part No.
16 (18.4)	270	08X8	43.2	0.16	22	1,700	160ARMC271M08X8
	470	08X8	75.2	0.16	20	2,000	160ARMC471M08X8
25 (28.8)	100	06X7	25	0.14	30	1,400	250ARMC101M06X7
	150	06X7	37.5	0.14	30	1,800	250ARMC151M06X7
	220	08X8	55	0.14	27	1,600	250ARMC221M08X8
	270	08X8	67.5	0.14	27	1,600	250ARMC271M08X8
	330	10X9	82.5	0.14	20	2,000	250ARMC331M10X9
	470	10X9	117.5	0.14	20	2,800	250ARMC471M10X9
	560	10X9	140	0.14	20	2,800	250ARMC561M10X9
35 (40.3)	68	06X7	23.8	0.12	35	1,400	350ARMC680M06X7
	150	08X8	52.5	0.12	27	1,600	350ARMC151M08X8
	180	08X8	63	0.12	27	1,600	350ARMC181M08X8
	220	08A2	77	0.12	19	2,000	350ARMC221M08A2
	270	10X9	94.5	0.12	20	2,000	350ARMC271M10X9
	330	10X9	115.5	0.12	20	2,000	350ARMC331M10X9
	330	10A2	115.5	0.12	17	2,300	350ARMC331M10A2
	390	10A2	136.5	0.12	17	2,800	350ARMC391M10A2
	470	10A6	164.5	0.12	11	4,000	350ARMC471M10A6
	680	10A6	238	0.12	11	4,000	350ARMC681M10A6
50 (57.5)	33	06X7	16.5	0.1	40	1,100	500ARMC330M06X7
	68	08X8	34	0.1	30	1,250	500ARMC680M08X8
	100	10X9	50	0.1	28	1,600	500ARMC101M10X9
	120	10X9	60	0.1	28	1,600	500ARMC121M10X9
	180	10A2	90	0.1	25	2,000	500ARMC181M10A2
	220	10A6	110	0.1	13	4,100	500ARMC221M10A6
63 (72.5)	22	06X7	13.9	0.08	80	900	630ARMC220M06X7
	33	08X8	20.8	0.08	40	1,100	630ARMC330M08X8
	47	08X8	29.6	0.08	32	2,400	630ARMC470M08X8
	56	10X9	35.3	0.08	30	1,400	630ARMC560M10X9
	68	10X9	42.8	0.08	30	1,400	630ARMC680M10X9
	82	10X9	51.7	0.08	30	1,400	630ARMC820M10X9
	100	10X9	63	0.08	30	2,800	630ARMC101M10X9
	180	10A6	113.4	0.08	15	3,500	630ARMC181M10A6
80 (92)	22	08X8	17.6	0.08	45	1,050	800ARMC220M08X8
	27	08X8	21.6	0.08	45	1,050	800ARMC270M08X8
	33	10X9	26.4	0.08	36	1,360	800ARMC330M10X9
	47	10X9	37.6	0.08	36	1,360	800ARMC470M10X9
	56	10X9	44.8	0.08	36	1,360	800ARMC560M10X9
	68	10A2	54.4	0.08	28	2,100	800ARMC680M10A2

Frequency correction factor of allowable ripple current

Frequency	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f≤500kHz
Coefficient	0.05	0.3	0.7	1

PRODUCT IDENTIFICATION

<u>250</u>	<u>ARMC</u>	<u>101</u>	<u>M</u>	<u>06X7</u>
Rated Voltage	Product	Capacitance	Cap Tolerance (%)	Size code (∅DxL)
250: 25V	Series	101: 100μF	M: ±20%	0607: 6.3x7.0mm