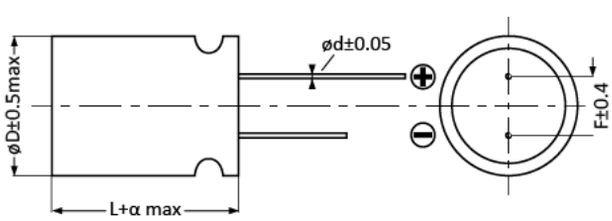
ARMC Series

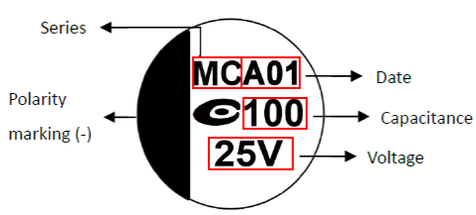
- Standard DIP type
- High reliability and high voltage are realized by hybrid electrolyte
- Rated Voltage:25~80V
- Endurance 4000 hours at 125°C
- For high temperature and high reliability applications
- RoHS Compliant

Specification

Category Temperature Range	-55~+125°C	Rated Voltage Range	25 to 80Vdc					
Rated Capacitance Range	22 to 470 (μF)	Capacitance Tolerance	±20% (M)					
Surge Voltage	Rated voltage X 1.15	Dissipation Factor (at 20°C 120Hz)	Rated Voltage (V)	25	35	50	63	80
			tan δ(max)	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)
06X8	6.3	8.0	-0.5~1	0.6	2.5
08X8	8.0	8.0	-0.5~1	0.6	3.5
10A0	10.0	10.0	-0.5~1	0.6	5.0
10A2	10.0	12.0	-0.5~1	0.6	5.0

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℃ /100kHz)	Part No.
25 (28.8)	100	06X8	25	0.14	30	1,400	250ARMC101M06X8
	220	08X8	55	0.14	27	1,600	250ARMC221M08X8
	330	10A0	82.5	0.14	20	2,000	250ARMC331M10A0
	470	10A0	117.5	0.14	20	2,000	250ARMC471M10A0
35 (40.3)	68	06X8	23.8	0.12	35	1,400	350ARMC680M06X8
	150	08X8	52.5	0.12	27	1,600	350ARMC151M08X8
	270	10A0	94.5	0.12	20	2,000	350ARMC271M10A0
	330	10A0	115.5	0.12	20	2,000	350ARMC331M10A0
50 (57.5)	33	06X8	16.5	0.10	40	1,100	500ARMC330M06X8
	68	08X8	34	0.10	30	1,250	500ARMC680M08X8
	100	10A0	50	0.10	28	1,600	500ARMC101M10A0
	120	10A0	60	0.10	28	1,600	500ARMC121M10A0
63 (72.5)	22	06X8	13.9	0.08	80	900	630ARMC220M06X8
	47	08X8	29.6	0.08	40	1,100	630ARMC470M08X8
	56	10A0	35.3	0.08	30	1,400	630ARMC560M10A0
	82	10A0	51.7	0.08	30	1,400	630ARMC820M10A0
	100	10A2	63	0.08	20	2,000	630ARMC101M10A2
80 (92)	27	08X8	21.6	0.08	45	1,100	800ARMC270M08X8
	47	10A0	37.6	0.08	36	1,270	800ARMC470M10A0
	56	10A2	44.8	0.08	32	1,360	800ARMC560M10A2

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

250	ARMC	101	M	06X8
Rated Voltage	Product	Capacitance	Cap Tolerance (%)	Size code (øDxL)
250: 25V	Series	101: 100μF	M: ±20%	0608: 6.3x9.0mm