

Alchip[®]MF Series

- Wide variety of case sizes (7 sizes)
- Suitable to fit for downsized equipment
- Solvent-proof type
- Pb-free design (B50 to DC5)

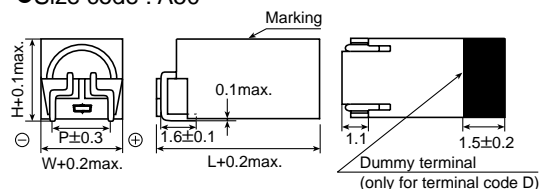


◆SPECIFICATIONS

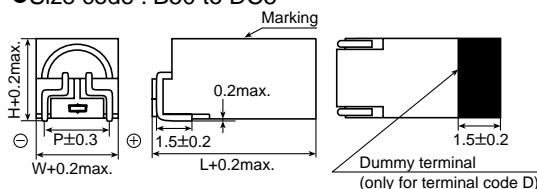
Items	Characteristics									
Category	-40 to +85°C									
Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 50V _{dc}									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)									
Dissipation Factor (tanδ)	See STANDARD RATINGS.									
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V		
	Z(-25°C)/Z(+20°C)	A50	10	7	5	4	3	2	2	
		B50 & C50	9	6	4	3	2	2	2	
		D50 to DC5	7	4	3	2	2	2	2	
	Z(-40°C)/Z(+20°C)	A50	18	13	10	8	6	5	5	
		B50 & C50	17	12	9	7	5	4	4	
D50 to DC5		15	10	8	6	4	3	3	(at 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C.									
	Size code	A50			B50 & C50			D50 to DC5		
	Capacitance change	≤±30% of the initial value			≤±25% of the initial value			≤±20% of the initial value		
	D.F. (tanδ)	≤200% of the initial specified value			≤200% of the initial specified value			≤200% of the initial specified value		
	Leakage current	≤The initial specified value			≤The initial specified value			≤The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied.									
	Capacitance change	≤±15% of the initial value								
	D.F. (tanδ)	≤150% of the initial specified value								
	Leakage current	≤The initial specified value								

◆DIMENSIONS [mm]

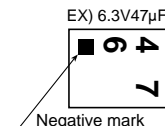
- Terminal Code : C or D <dummy terminal>
- Size code : A50



- Size code : B50 to DC5

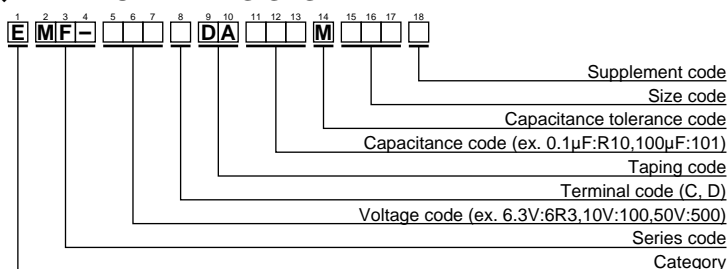


◆MARKING



Size code	L	W	H	P
A50	6.3	3.1	3.0	2.4
B50	6.3	3.6	3.5	3.0
C50	6.3	4.1	4.0	3.5
D50	6.3	4.6	4.5	4.0
D70	8.3	4.6	4.5	4.0
D90	10.3	4.6	4.5	4.0
DC5	13.3	4.6	4.5	4.0

◆PART NUMBERING SYSTEM



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◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Size code	tanδ	Rated ripple current (mA rms/85°C, 120Hz)	Part No.
4	47	C50	0.65	21	EMF-4R0□DA470MC50G
	68	D70	0.50	35	EMF-4R0□DA680MD70G
	100	D90	0.50	46	EMF-4R0□DA101MD90G
	150	DC5	0.50	67	EMF-4R0□DA151MDC5G
6.3	10	A50	0.55	8.2	EMF-6R3□DA100MA50N
	10	B50	0.40	11	EMF-6R3□DA100MB50G
	22	B50	0.55	16	EMF-6R3□DA220MB50G
	33	C50	0.55	21	EMF-6R3□DA330MC50G
	47	D50	0.55	29	EMF-6R3□DA470MD50G
	68	D90	0.32	44	EMF-6R3□DA680MD90G
10	100	DC5	0.32	63	EMF-6R3□DA101MDC5G
	6.8	A50	0.45	7.5	EMF-100□DA6R8MA50N
	6.8	B50	0.30	10	EMF-100□DA6R8MB50G
	15	B50	0.45	14	EMF-100□DA150MB50G
	22	C50	0.45	19	EMF-100□DA220MC50G
	33	D50	0.45	24	EMF-100□DA330MD50G
	47	D90	0.28	41	EMF-100□DA470MD90G
16	68	DC5	0.28	58	EMF-100□DA680MDC5G
	4.7	A50	0.35	6.8	EMF-160□DA4R7MA50N
	4.7	B50	0.24	9	EMF-160□DA4R7MB50G
	6.8	B50	0.35	10	EMF-160□DA6R8MB50G
	10	B50	0.35	12	EMF-160□DA100MB50G
	15	C50	0.35	17	EMF-160□DA150MC50G
	22	D50	0.35	24	EMF-160□DA220MD50G
	33	D90	0.24	37	EMF-160□DA330MD90G
25	47	DC5	0.24	53	EMF-160□DA470MDC5G
	3.3	A50	0.20	6.1	EMF-250□DA3R3MA50N
	3.3	B50	0.18	8.3	EMF-250□DA3R3MB50G
	4.7	B50	0.20	9.9	EMF-250□DA4R7MB50G
	6.8	C50	0.20	13	EMF-250□DA6R8MC50G
	10	D50	0.20	18	EMF-250□DA100MD50G
	15	D70	0.16	25	EMF-250□DA150MD70G
35	22	D90	0.16	34	EMF-250□DA220MD90G
	33	DC5	0.16	51	EMF-250□DA330MDC5G
	1.5	A50	0.18	5.3	EMF-350□DA1R5MA50N
	2.2	A50	0.18	5.3	EMF-350□DA2R2MA50N
	2.2	B50	0.16	7.2	EMF-350□DA2R2MB50G
	3.3	B50	0.18	8.8	EMF-350□DA3R3MB50G
50	4.7	C50	0.18	11	EMF-350□DA4R7MC50G
	6.8	D50	0.18	16	EMF-350□DA6R8MD50G
	10	D70	0.14	22	EMF-350□DA100MD70G
	15	D90	0.14	30	EMF-350□DA150MD90G
	22	DC5	0.14	43	EMF-350□DA220MDC5G
	0.10	A50	0.16	1.3	EMF-500□DAR10MA50N
	0.10	B50	0.14	1.3	EMF-500□DAR10MB50G
	0.22	A50	0.16	2.2	EMF-500□DAR22MA50N
0.22	B50	0.14	2.2	EMF-500□DAR22MB50G	
0.33	A50	0.16	2.6	EMF-500□DAR33MA50N	
0.33	B50	0.14	2.6	EMF-500□DAR33MB50G	
0.47	A50	0.16	3.2	EMF-500□DAR47MA50N	
0.47	B50	0.14	3.2	EMF-500□DAR47MB50G	
1.0	A50	0.16	4.6	EMF-500□DA1R0MA50N	
1.0	B50	0.14	4.6	EMF-500□DA1R0MB50G	
1.5	B50	0.14	6.4	EMF-500□DA1R5MB50G	
2.2	B50	0.16	7.7	EMF-500□DA2R2MB50G	
3.3	C50	0.16	10	EMF-500□DA3R3MC50G	
4.7	D50	0.16	14	EMF-500□DA4R7MD50G	
6.8	D70	0.12	19	EMF-500□DA6R8MD70G	
10	D90	0.12	26	EMF-500□DA100MD90G	
15	DC5	0.12	38	EMF-500□DA150MDC5G	

□ : Terminal code

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