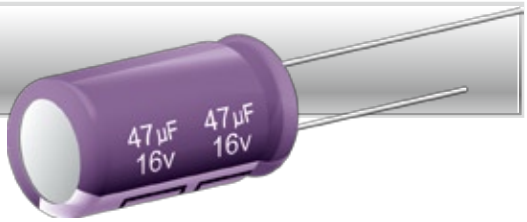
MI Series

ALUMINUM ELECTROLYTIC CAPACITORS



FEATURES

General Used Height 7mm For 105°C

SPECIFICATION

Item	Characteristic
Operation Temperature Range	-40 to +105°C
Rated Working Voltage	6.3 – 50 V.DC
Capacitance Tolerance (120Hz 20°C)	±20% (M)
Leakage Current (120Hz 20°C)	I ≤ 0.01CV or 3 (uA) max Whichever is greater after 2 minutes I : Leakage Current(uA) C : Rated Capacitance(µF) V : Rated Voltage(V)

Surge Voltage (120Hz 20°C)

WV	6.3	10	16	25	35	50
SV	8	13	20	32	44	63

Dissipation Factor (120Hz 20°C) (tanδ)

WV	6.3	10	16	25	35	50
tanδ	0.24	0.20	0.17	0.15	0.12	0.10

Low Temperature Stability

Impedance ratio at 120Hz

Rated Voltage (V)	6.3	10	16	25	35	50
-25°C / +25°C	3	2	2	2	2	2
-40°C / +25°C	6	5	4	3	3	3

Load Life

After 1000 hours application of W V at + 105°C the capacitor shall meet the following limits

Capacitance Change	≤ ±25% of initial value
Dissipation Factor	≤ 200% of initial specified value
Leakage Current	≤ initial specified value

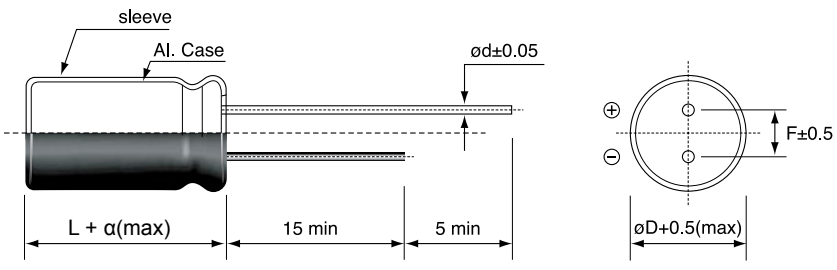
Shelf Life

After 500 hours application of W V at + 105°C the capacitor shall meet the following limits

Capacitance Change	≤ ±25% of initial value
Dissipation Factor	≤ 200% of initial specified value
Leakage Current	≤ initial specified value

DIMENSIONS (mm)

D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45	0.50	0.50	0.50
α	1.0	1.3	1.3	1.5



CASE SIZE & MAX RIPPLE CURRENT

μF \ WV	6.3 / 0J		10 / 1A		16 / 1C	
ITEM	D×L	R.C.	D×L	R.C.	D×L	R.C.
0.1						
0.22						
0.33						
0.47						
1.0						
2.2						
3.3						
4.7						
10				→	4x7	29
22	4x7	34	4x7	34	4x7	32
			5x7	38	5x7	42
33	4x7	34	4x7	38	5x7	44
	5x7	42	5x7	47	6.3x7	60
47	4x7	34	4x7	38	5x7	60
	5x7	50	5x7	47		
68					6.3x7	65
100	4x7	50	5x7	70	6.3x7	70
	5x7					
150	6.3x7	85			6.3x7	85
220	6.3x7	77	6.3x7	87	6.3x7	97
			8x7		8x9	140
330	6.3x7	80	8x7	110	8x7	120
470	8x7	120	8x9	190		

μF \ WV	25 / 1E		35 / 1V		50 / 1H		63 / 1J	
ITEM	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.
0.1				→	4x7	1		
0.22				→	4x7	2.3		
0.33				→	4x7	3.5		
0.47				→	4x7	5		
1.0				→	4x7	10	6.3x7	55
2.2				→	4x7	19		
3.3				→	4x7	24		
4.7		→	4x7	24	4x7	25		
					5x7	29		
10	4x7	29	4x7	30	5x7	40		
			5x7	36	6.3x7	44		
22	5x7	36	5x7	39	6.3x7	65		
			6.3x7	60				
33	5x7	43	5x7	45	6.3x7	64		
	6.3x7	51	6.3x7	72	8x7	75		
47	5x7	65	6.3x7	70	8x7	85		
	6.3x7							
100	6.3x7	125						
	8x9							
220	8x9	140						