



ELECTROLYTIC CAPACITOR-EMR Series

EMR Series

1. Most suitable for high-density electronic products, such as automatic office machines, pocket calculators, car stereos and micro-cassette tape recorders and watches, etc.

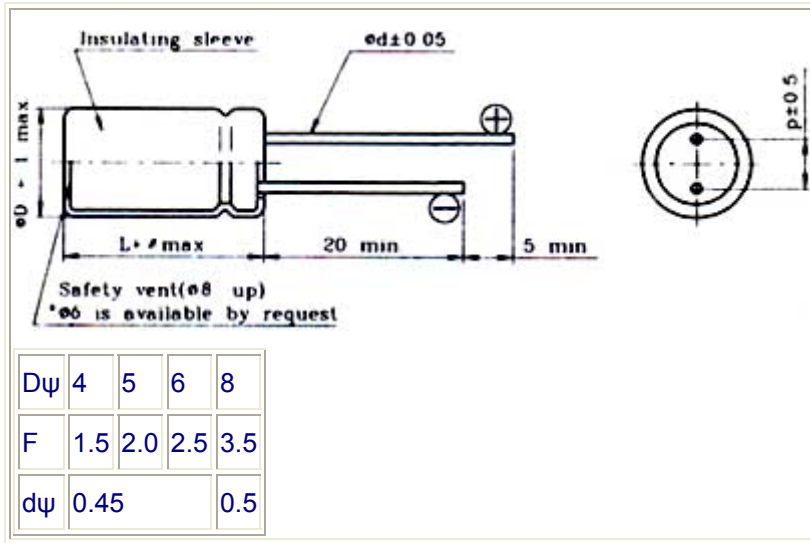
Characteristics

Voltage Range	6.3~63V
Capacitance Range	0.47~220 μ F
Temperature	-40~+105 $^{\circ}$ C
Capacitance Tolerance	+20% - 20%(at 20 $^{\circ}$ C, 120Hz)
Leakage Current	I=0.01CV or 3 μ A Whichever is greater (After 2 minutes)

Dissipation Factor (tan δ)	Rated voltage	6.3V	10V	16V	25V	35V	50V	63V
	tan δ (max)	0.24	0.20	0.16	0.14	0.12	0.10	0.10
(at 20 $^{\circ}$ C, 120Hz)								
Stability at Low Temperature	Impedance ratio at 120Hz							
	Rated voltage	6.3V	10V	16V	25V	35V	50V	63V
	Z-25 $^{\circ}$ C/Z 20 $^{\circ}$ C	4	3	2	2	2	2	2
	Z-40 $^{\circ}$ C/Z 20 $^{\circ}$ C	8	6	4	4	3	3	3
Load Life	After the rated voltage has been applied for 1000 hours at 105 $^{\circ}$ C							
	Capacitance change	Within +-20% of initial value						
	D.F. tan δ	200% or less of initial specified value						
	Leakage current	Initial specified value or less						
Shelf Life	After storage for 500 hours at 105 $^{\circ}$ C, with no voltage applied and being stabilized at +20 $^{\circ}$ C, Capacitor shall meet the limit specified in load life.							

Diagram of Dimensions

Unit (mm)



Case Size of Standard Products

DxL (mm)

μF \ WV	6.3V	10V	16V	25V	35V	50V	63V
0.47μF					→	4x7	4x7
1μF	ALL BLANK VOLTAGE ON SLEEVE				→	4x7	4x7
2.2μF	MARKING IS SAME VOLTAGE "→" POINT				→	4x7	4x7
3.3μF	TO				→	4x7	4x7
4.7μF					→	4x7	4x7
10μF		→	4x7	4x7	5x7	5x5	6x7
22μF		→	4x7	5x7	5x7	6x7	8x7 8x9
33μF	→	4x7	4x7	5x	6x7	8x7 8x9	
47μF	→	4x7	5x7	6x7	6x7		
100μF	→	5x7	6x7	8x7 8x9			
220μF	→	6x7	8x7 8x9				

Maximum Ripple Current

mA rms 105°C 120Hz

$\mu\text{F} \setminus \text{WV}$	6.3	10	16	25	35	50	63
0.47						6	7
1						10	12
2.2						18	20
3.3						20	24
4.7						28	30
10			30	30	33	40	47
22			35	50	55	60	85
33		43	50	65	65	75	
47		65	72	83	85		
100		85	96	120			
220		120	190				