MH7 SERIES

105℃ 7mm Height.

◆FEATURES

・RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	6.3～50V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz)

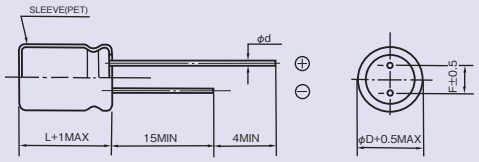
Rated Voltage (V)	6.3	10	16	25	35	50
tanδ	0.24	0.20	0.16	0.14	0.12	0.10

Endurance	
After applying rated voltage with rated ripple current for 1000 hours at 105℃, the capacitors shall meet the following requirements.	
Capacitance Change	Within ±25% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Low Temperature Stability Impedance Ratio(MAX) (120Hz)

Rated Voltage (V)	6.3	10	16	25	35	50
Z(−25℃)/Z(20℃)	3	2	2	2	2	2
Z(−40℃)/Z(20℃)	6	5	4	3	3	3

◆DIMENSIONS (mm)



φD	4	5	6.3
φd	0.45		
F	1.5	2.0	2.5

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	1μF	0.50	1.0	1.20	1.30	1.50
	2.2～4.7μF	0.65	1.0	1.20	1.30	1.50
	10～47μF	0.8	1.0	1.20	1.30	1.50
	100μF	0.8	1.0	1.10	1.15	1.20

◆STANDARD SIZE

Size φD×L(mm), Ripple Current (mA r.m.s./105℃, 120Hz)

V.DC	Cap (μF)	Size (φDxL)	Rated Ripple Current
6.3 (0J)	22	4×7	34
	33	5×7	42
	47	5×7	50
	100	6.3×7	77
10 (1A)	22	5×7	38
	33	5×7	47
	47	6.3×7	65
	100	6.3×7	87

V.DC	Cap (μF)	Size (φDxL)	Rated Ripple Current
16 (1C)	10	4×7	29
	22	5×7	44
	33	6.3×7	60
	47	6.3×7	70
	100	6.3×7	91
25 (1E)	10	5×7	33
	22	6.3×7	51
	33	6.3×7	65
	47	6.3×7	70

V.DC	Cap (μF)	Size (φDxL)	Rated Ripple Current
35 (1V)	4.7	4×7	24
	10	5×7	36
	22	6.3×7	60
	33	6.3×7	65
50 (1H)	1	4×7	10
	2.2	4×7	19
	3.3	4×7	24
	4.7	5×7	29
	10	6.3×7	44
	22	6.3×7	60

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

□□□	MH7	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size