Series: ACHE (Long Life)

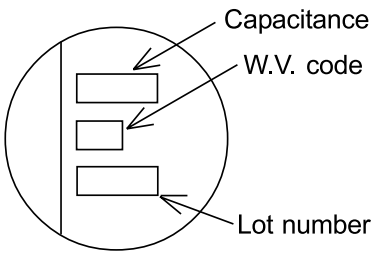
FEATURES

Size:	ø 4 x 5.8 to ø 10 x 10.5
Life Time:	105°C 5000 h

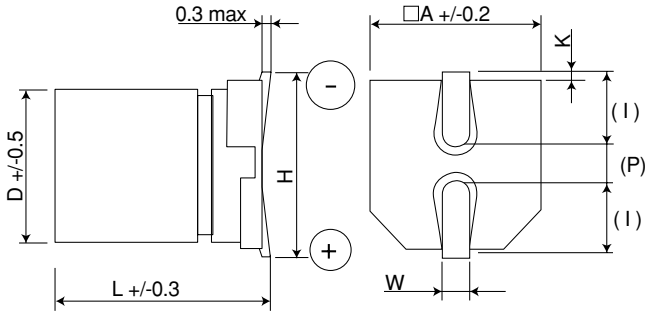
SPECIFICATIONS

Operating Temp. Range	-40 to +105°C								
Rated W.V. Ragne	16 to 50 V DC								
Nominal Cap. Range	0.47 to 47µF								
Capacitance Tolerance	± 20% (120Hz/+20°C)								
Dissipation Factor (tan δ)	W.V. (V)	10	16	25	35	50	63	100	
	ø 4 to ø 6.3	–	0.20	0.16	0.13	0.12	–	–	at 120Hz, +20°C
	ø 8 to ø 10	0.30	0.23	0.18	0.16	0.14	0.18	0.18	
D.C. Leakage Current	1≤0.01 CV or 3 (µA) (whichever is greater) after application of rated working voltage for 2 minutes at +20°C.								
Characteristics at Low Temperature	W.V. (V)	10	16	25	35	50–100			
	-25°C / +20°C	6	2	2	2	2	(Impedance ratio max at 120Hz)		
	-40°C / +20°C	12	5	3	3	3			
Endurance	After applying rated working voltage for 5000 hours at +105 ±2°C and then being stabilized at +20°C, capacitors shall meet the following limits:								
	Capacitance change	± 30% of initial measured value							
	D.F. (tan δ)	≤ 300% of initial specified value							
	D.C. leakage current	≤ initial specified value							
Shelf Life	After being stored for 1000 hours at +105 ±2°C with no voltage application and then stabilized at +20°C, capacitors shall meet the following requirements:								
	Capacitance change	± 20% of the initial measured value							
	D.F. (tan δ)	≤ 200% of the initial value							
	D.C. leakage current	≤ initial specified value (with voltage treatment)							

MARKING



DIMENSIONS in mm (not to scale)



SIZE CODE (mm)

( ) referemce

Size code	øD	L	A	H	I	W	P	K
B	4.0	5.8	4.3	5.5 max	1.8	0.65±0.1	1.0	$0.35^{+0.15}_{-0.20}$
C	5.0	5.8	5.3	6.5 max	2.2	0.65±0.1	1.5	$0.35^{+0.15}_{-0.20}$
D	6.3	5.8	6.6	7.8 max	2.6	0.65±0.1	1.8	$0.35^{+0.15}_{-0.20}$
E	8.0	6.2	8.3	9.5 max	3.4	0.65±0.1	2.2	$0.35^{+0.15}_{-0.20}$
F	8.0	10.2	8.3	10.0 max	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 max	3.5	0.90±0.2	4.6	0.70±0.2

CASE SIZE

Cap. (µF) \ W.V.	10	16	25	35	50	63	100
0.47					B		
1.0					B		
2.2					B		
3.3					B		E
4.7			B	B	C		F
10		B	C	C	D	E	F
22		C	D	D	E	F	G
33			D	E	F	G	
47		D	E	F	G		
100	E	F	F	G			
220	F	G					
330	G						

STANDARD PRODUCTS

W.V. (V.DC)	Cap. (µF)	Part No.	R.C. (mA rms)	Imp. (ohms)	Size (mm) D	Size (mm) L
10	100	ACHE107M10ET	62	2.0	8	6.2
	220	ACHE227M10FT	93	1.5	8	10.2
	330	ACHE337M10GT	118	0.8	10	10.2
16	10	ACHE106M16BT	20	12.0	4.0	5.8
	22	ACHE226M16CT	33	7.2	5.0	5.8
	47	ACHE476M16DT	55	4.0	6.3	5.8
	100	ACHE107M16FT	89	1.5	8	10.2
	220	ACHE227M16GT	113	0.8	10	10.2
25	4.7	ACHE475M25BT	15	12.0	4.0	5.8
	10	ACHE106M25CT	26	7.2	5.0	5.8
	22	ACHE226M25DT	42	4.0	6.3	5.8
	33	ACHE336M25DT	52	4.0	6.3	5.8
	47	ACHE476M25ET	56	2.0	8	6.2
	100	ACHE107M25GT	84	1.5	8	10.2
35	4.7	ACHE475M35BT	17	12.0	4.0	5.8
	10	ACHE106M35CT	28	7.2	5.0	5.8
	22	ACHE226M35DT	47	4.0	6.3	5.8
	33	ACHE226M35ET	53	2.0	8	6.2
	47	ACHE476M35FT	79	1.5	8	10.2
	100	ACHE107M35GT	101	0.8	10	10.2
50	0.47	ACHE474M50BT	5	12.0	4.0	5.8
	1.0	ACHE105M50BT	7	12.0	4.0	5.8
	2.2	ACHE225M50BT	12	12.0	4.0	5.8
	3.3	ACHE335M50BT	16	12.0	4.0	5.8
	4.7	ACHE475M50CT	21	7.2	5.0	5.8
	10	ACHE106M50DT	33	4.0	6.3	5.8
	22	ACHE226M50ET	50	2.0	8	6.2
	33	ACHE336M50FT	74	1.5	8	10.2
	47	ACHE476M50GT	94	0.8	10	10.2

STANDARD PRODUCTS

W.V. (V.DC)	Cap. (µF)	Part No.	R.C. (mA rms)	Imp. (ohms)	Size (mm) D	Size (mm) L
63	10	ACHE106M63ET	45	2.0	8	6.2
	22	ACHE226M63FT	65	1.5	8	10.2
	33	ACHE336M63GT	80	0.8	10	10.2
100	3.3	ACHE335M100ET	30	2.0	8	6.2
	4.7	ACHE475M100FT	50	1.5	8	10.2
	10	ACHE106M100FT	55	1.5	8	10.2
	22	ACHE226M100GT	70	0.8	10	10.2

Ripple current = 120Hz/+105ºC, Impedance = 100kHz/+20ºC

RIPPLE CURRENT CORRECTION FACTOR

Frequency Hz	50≤f<100	100≤f<1K	1k≤f<10K	10K<f
Correction Factor	0.7	1.0	1.3	1.7

PART NUMBERING SYSTEM

Series	Capacitance code	Tolerance	R.W. Voltage	Case Size	Packaging
ACHE	106	M	16	B	T
	The first 2 figures are actual values and the third denotes the number of zeros.				T = Tape & Reel B = Bulk