

H6 SERIES

Features

- LOW ESR, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant



Specifications

Items	Characteristics		
Category	-55~+105°C		
Temperature Range	-55~+105°C		
Rated Voltage Range	2.5~25V		
Capacitance tolerance	± 20%(M) (at 20°C,120Hz)		
Leakage Current	Less than or equal to the specified value, After 2 minutes application of rated Voltage at 20°C		
tanδ Dissipation Factor	Rated voltage (V)	10~50	(at 20°C, 120Hz)
	tanδ(Max.)	0.16	
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≅ 0.75 to 2.0	(100KHz)
	Z(-55°C)/Z(+20°C)	≅ 0.75 to 1.5	
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 2000 hours at 105°C.		
	Appearance	No significant damage	
	Capacitance change	≅ ±30% of the initial value	
	D.F.(tanδ)	≅ 200% of the specified value	
	ESR	≅ 200% of the specified value	
	Leakage current	≅ The specified value	
Damp Heat(Steady State)	The specifications listed below shall be satisfied when the capacitors are restored to 20 °C after application of rated voltage for 1000 hours at 60°C,90%~95% RH		
	Appearance	No significant damage	
	Capacitance change	≅ ±30% of the initial value	
	D.F.(tanδ)	≅ 200% of the specified value	
	ESR	≅ 200% of the specified value	
	Leakage current	≅ The specified value	
Surge Voltage	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (Rc=1k) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≅ ±30% of the initial value	
	D.F.(tanδ)	≅ 200% of the specified value	
	ESR	≅ 200% of the specified value	
	Leakage current	≅ The specified value	

Case size table

ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6
α	L+1.5Max			

How to order

H6	3	101	M	500	B	8X12
Series code	Number of characters for capacitance (47uF=2, 1000uF=3, 1000uF=4)	Capacitance (100uF=101, 3300uF=332, 33000uF=333)	Capacitance tolerance (M+20% K +10%)	Voltage code (6.3V=6R3, 50V= 100, 63V=630, 100V=101)	Package (B: Bulk pack, A : Ammo Pack)	Size code





Environmental

RoHS declaration (6/6) complies with the requirements of Directive 2002/95/EC, which stipulates the use of 100% Sn solder, gold plated or non-magnetic 100% Sn solder





Application

Computer	PC Power	Measuring instruments	Telecom Infrastructure
			

Rated Ripple Current Coefficient

Frequency(Hz)	120Hz \leq f < 1kHz	1kHz \leq f < 10kHz	10kHz \leq f < 100kHz	100kHz \leq f < 500kHz
Coefficient	0.05	0.30	0.70	1.00

Standard Ratings

Rated voltage(V)	Rated capacitance (uF)	Case size Φ DxL(mm)	ESR(m Ω) at 20C, 100 KHz	Leakage Current (uA)	Rated ripple current(mArms/105C/100KHz)
10	100	6.3*8	40	30	2000
	220	6.3*8	40	30	2000
	330	6.3*8	40	99	2000
	470	8*9	25	141	2200
	680	8*12	25	204	2690
	820	8*12	25	820	2690
	1000	10*12.5	15	300	3100
	1500	10*12.5	15	450	3100
16	100	6.3*8	40	48	1500
	220	6.3*8	40	106	1500
	220	8*9	25	106	2000
	330	8*9	25	158	2000
	470	8*12	25	226	2250
	680	8*12	25	326	2250
	820	10*12.5	18	394	2900
	1000	10*12.5	18	480	2900
25	47	6.3*8	50	35	1400
	100	6.3*8	50	75	1500
	100	8*9	30	75	1800
	220	8*12	30	165	2100
	330	8*12	30	248	2100
	330	10*12.5	16	248	2900
	470	10*12.5	16	353	2900
35	47	6.3*8	60	49	1300
	100	8*9	30	105	1800
	100	8*12	30	105	2100
	150	8*12	30	158	2100
	220	8*12	30	231	2100
	220	10*12.5	20	231	2830
	330	10*12.5	20	347	2830

Standard Ratings

Rated voltage(V)	Rated capacitance (uF)	Case size ΦDxL(mm)	ESR(m Ω) at 20C, 100 KHz	Leakage Current (uA)	Rated ripple current(mArms/105C/100KHz)
50	10	6.3*8	80	18	1200
	22	6.3*8	80	33	1200
	33	6.3*8	70	50	1250
	47	8*9	35	71	1670
	100	8*9	35	150	1670
	100	8*12	35	150	1800
	150	8*12	35	158	1800
	220	10*12.5	25	330	2650