

Dongguan Heyue Electronics Co., Ltd

DIMENSIONS(mm)

■ Chip Type

FOR APPROVAL

Fig.1 ΦD=8~10mm

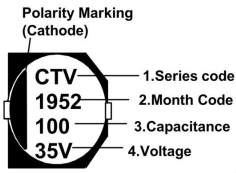
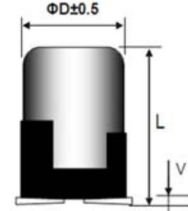
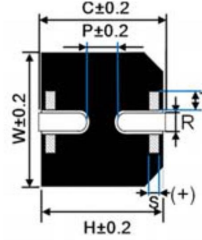
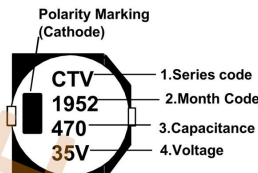


Fig.2 ΦD ≥ 12.5mm



Size	ΦD	L	W	H	C	R	P	S	T	Vmax
8*10.5	8.0	10.5±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.7	1.3	0.3
10*10.5	10.0	10.5±0.5	10.3	10.3	11.0	1.0~1.4	4.5	0.7	1.3	0.3
12.5*13.5	12.5	13.5±1	13.5	13.5	14.2	1.0~1.4	4.5	2.2	2.4	0.4
16*16.5	16.0	16.5±1	17.0	17.0	18.0	1.4~1.8	6.4	3.0	2.0	0.4

Customer:	Electrolytic Capacitors										Heyue
	HTV Series										Code

Electric Characteristics:

P/N	Heyue P/N	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100KHz (mA rms)	IMP 100KHz at 25°C (Ω)Max	Load Life (hours)
	HTV1H471M1616VG-A	470	±20	50	57.5	125	16*16.5	235	14	1000	0.090	5000

REMARKS:

- Leakage Current Test:** 16V ~50V at 20°C for 2 minutes ;
 - Operating temperature:** 16V~50V -40°C~+125°C ;
 - .Dissipation Factor Test:** at 20°C, 120 Hz.
 - Capactitance Test:** at 20°C, 120 Hz.
 - Ripple Current Test:** at 125°C, 100K Hz ;
 - Load Life:** Φ8~Φ10:2000hours; Φ12.5:3000hours ; Φ16: 5000hours with application of rated voltage at 125°C
- Capacitance Change:** Within ±30% of initial value;
tanδ: 300% or less of initial specified value;
Leakage Current: Initial specified value or less;
- 7. Shelf Life:** The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 125°C without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.
- Capacitance Change:** Within ±30% of initial value;
tanδ: 300% or less of initial specified value;
Leakage Current: Initial specified value or less;
- 8. when have characteristic requested:** Load life & shelf life test and etc. , judgment standard reference to our catalogue.
 - 9.Remarks:** Huyue Part Number with suffix code "A" is specially offered for automotive project, which meets AEC-Q200 standard.

●SPECIFICATION

Leakage Current 洩漏電流	After 2 minutes application of rated voltage,leakage current is not more than 0.01cv or 3(uA),whichever is greater.				
Dissipation Factor 散逸因素 (損失角)	Measurement Frequency:120Hz. Temperature:20°C				
(tan δ)	Rate Voltage(V)	16	25	35	50
	tan δ (MAX)	0.20	0.20	0.14	0.14
Low Temperature Stability 低溫特性	Measurement Frequency:120Hz.				
	Rate Voltage(V)	16	25	35	50
Impedance Ratio(MAX) 阻抗比率(MAX)	Z(-25°C)/Z(20°C)	5	2	2	2
	Z(-40°C)/Z(20°C)	8	4	3	3

●Frequency Coefficient of Permissible Ripple Current

Frequency (Hz) Coefficient (μF)	100 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F
	全系列	0.60	0.85	0.93

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5 °C rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.