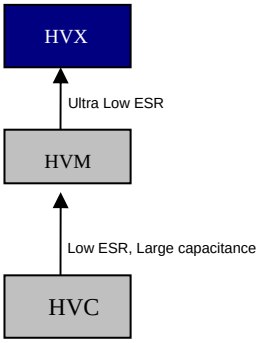
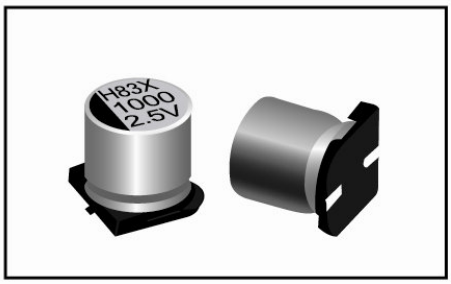
HVX SERIES

- Chip Type ,Ultra Low ESR 105℃,2000 hours.
- High ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

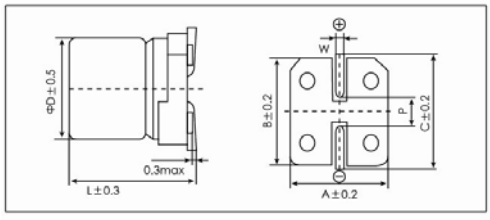




Items	Characteristics
Operating Temperature Range(°C)	-55~+105
Voltage Range (V)	2.5~10
Capacitance Range(μF)(20°C,120Hz)	120~1200
Capacitance Tolerance (20°C,120Hz)	±20%
Surge Voltage	$U_R \times 1.15$
Leakage Current (μA)※1	Please see attached ratings list (20℃,2min)
Dissipation Factor (20°C,120Hz)	Please see attached ratings list
Equivalent Series Resistance(20°C,100kHz)	Please see attached ratings list
Temperature Characteristics(Max Impedance Ratio at 100kHz)	$Z_{+105℃}$ /$Z_{+20℃}$ ≤1.25 $Z_{-55℃}$ /$Z_{+20℃}$ ≤1.25
Endurance	**2000h,Rated voltage applied at 105℃** Capacitance change:within±20% of the initial measured value Dissipation Factor (Tan δ): ≤150% of initial specified value ESR：≤150% of initial specified value DC Leakage Currrent: ≤the initial specified value
Damp heat(Steady state)	**1000h,No-applied voltage 60℃,90~95% RH** Capacitance change:within±20% of the initial measured value Dissipation Factor (Tan δ): ≤150% of initial specified value ESR：≤150% of initial specified value DC Leakage Currrent: ≤the initial specified value(after voltage processing)
Resistance to soldering heat	**Reflow Method (260℃×5s)** Capacitance change:within±10% of the initial measured value Dissipation Factor (Tan δ): ≤130% of initial specified value ESR：≤130% of initial specified value DC Leakage Currrent: ≤the initial specified value(after voltage processing)

※ 1 In case of some problems for measured values, measure after applying rated voltage for120 minutes at 105℃.

Dimensions mm



(unit: mm)

Size Code	Φ D±0.5	L	A±0.2	B±0.2	C±0.2	W	P±0.2
F60	6.3	5.7	6.6	6.6	7.3	0.5 ~ 0.8	2.0
B70	8	6.7	8.3	8.3	9.0	0.5 ~ 0.8	3.1

Size List

UR[S.V](V) / Cap.(μF)	2.5[2.9]	4 [4.6]	6.3[7.2]	10 [12]
120				F60
220			F60	B70
270				B70
330		F60	B70	B70
390	F60		B70	
470		B70	B70	
560	B70	B70		
680	B70			

Ratings for HVX Series

U_R Code	Rated Capacitance 20℃, 120Hz	Max ESR 20℃, 100kHz	Rated Ripple Current 105℃, 100kHz	Dissipation Factor 20℃, 120Hz	Leakage Current 20℃,2min	Size ΦD×L	P/N
(v)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	390	11	3900	12	195.0	6.3X5.7	PCV0EVX391MF60□□
	560	11	4500	12	280.0	8x6.7	PCV0EVX561MB70□□
	680	11	4500	12	340.0	8x6.7	PCV0EVX681MB70□□
4 0G	330	11	3900	12	264.0	6.3X5.7	PCV0GVX331MF60□□
	390	11	3900	12	312.0	6.3X7.7	PCV0GVX391MF80□□
	470	11	4500	12	376.0	8x6.7	PCV0GVX471MB70□□
	560	11	4500	12	448.0	8x6.7	PCV0GVX561MB70□□
6.3 0J	220	11	3900	12	277.0	6.3X5.7	PCV0JVX221MF60□□
	330	11	4500	12	415.8	8x6.7	PCV0JVX331MB70□□
	390	11	4500	12	491.4	8x6.7	PCV0JVX391MB70□□
	470	11	4500	12	592.2	8x6.7	PCV0JVX471MB70□□
10 1A	120	15	3200	12	240.0	6.3X5.7	PCV1AVX121MF60□□
	220	15	3800	12	440.0	8x6.7	PCV1AVX221MB70□□
	270	15	3800	12	540.0	8x6.7	PCV1AVX271MB70□□
	330	15	3800	12	660.0	8x6.7	PCV1AVX331MB70□□

Customer products are available on request.

Frequency coefficient for ripple current

Frequency	120Hz ≤ f <1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f<100kHz	100kHz ≤ f< 500kHz
Coefficient	0.05	0.3	0.7	1