

HXK Series

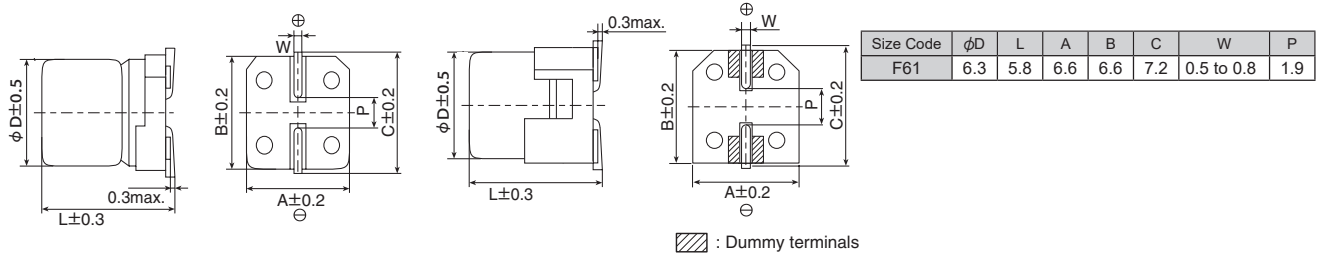
- High reliability is realized by hybrid electrolyte
- Endurance with ripple current : 4,000 hours at 125°C
- Rated voltage range : 16 to 35V_{dc}, Capacitance range : 82 to 180 μF
- For high temperature and high reliability applications.
(Automotive equipment etc.)
- RoHS2 Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

◆ SPECIFICATIONS

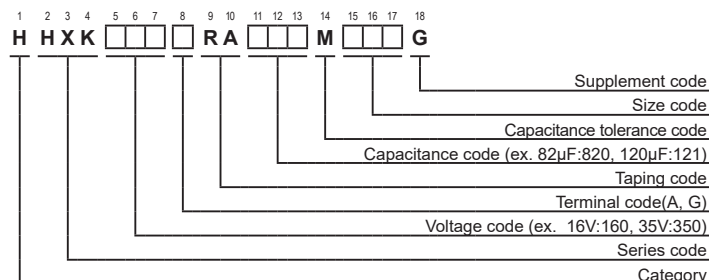
Items	Characteristics
Category	-55 to +125°C
Temperature Range	-55 to +125°C
Rated Voltage Range	16 to 35V _{dc}
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I=0.01CV or 3μA, whichever is greater Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V) (at 20°C after 2 minutes)
Dissipation Factor (tanδ)	Rated voltage(V _{dc})
	tanδ (Max.)
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C) ≤ 1.5 Z(-55°C)/Z(+20°C) ≤ 2.0 (at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 4,000 hours at 125°C.
	Capacitance change
	D.F. (tanδ)
	ESR
	Leakage current
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.
	Capacitance change
	D.F. (tanδ)
	ESR
	Leakage current
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 85°C, 85% RH for 2,000 hours.
	Appearance
	Capacitance change
	D.F. (tanδ)
	ESR
	Leakage current

◆ DIMENSIONS [mm]

- Terminal Code : A
- Size code : F61
- Terminal Code : G(Vibration resistant structure)
- Size code : F61



◆ PART NUMBERING SYSTEM



◆ MARKING

EX) 35V82μF



● Rated voltage symbol

Rated voltage(V _{dc})	16	25	35
Symbol	C	E	V

Product specifications in this bulletin are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this bulletin and product specifications. Please contact us for mass production schedule.

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◆ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	ESR (mΩmax./20°C, 100kHz)	Rated ripple current (mA _{rms} /125°C, 100kHz)	Part No.
16	180	F61	45	1,500	HHXK160□RA181MF61G
25	120	F61	50	1,400	HHXK250□RA121MF61G
35	82	F61	55	1,400	HHXK350□RA820MF61G

◆ RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF) \ Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
82	0.15	0.50	0.65	0.75	0.80	0.80	1.00
120 , 180	0.15	0.50	0.70	0.75	0.85	0.85	1.00