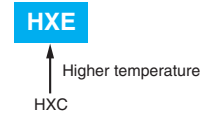


HXE New! Series

- High reliability is realized by hybrid electrolyte
- Endurance with ripple current : 2,000 to 4,000 hours at 135°C
- Rated voltage range : 16 to 35V_{dc}, Capacitance range : 47 to 470μF
- For high temperature and high reliability applications.
(Automotive equipment, Base station equipment, etc.)
- RoHS2 Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

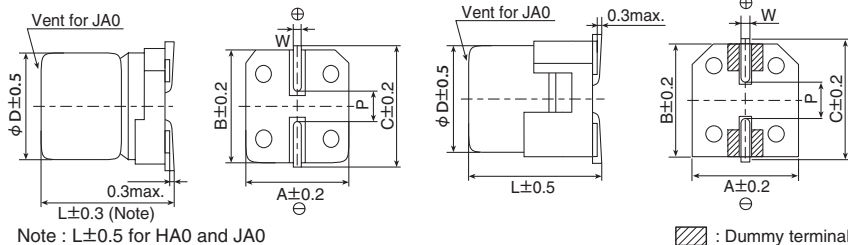


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55 to +135°C	
Rated Voltage Range	16 to 35V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.01CV Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V) (at 20°C after 2 minutes)	
Dissipation Factor (tan δ)	Rated voltage(V _{dc})	16V 25V 35V
	tan δ (Max.)	0.16 0.14 0.12 (at 20°C, 120Hz)
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 (F61, F80 : 2,000 hours) at 125°C or 135°C.	
	Capacitance change	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
	Leakage current	≤ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 135°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	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
	Leakage current	≤ The initial specified value
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	No significant damage
	Capacitance change	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
	Leakage current	≤ The initial specified value

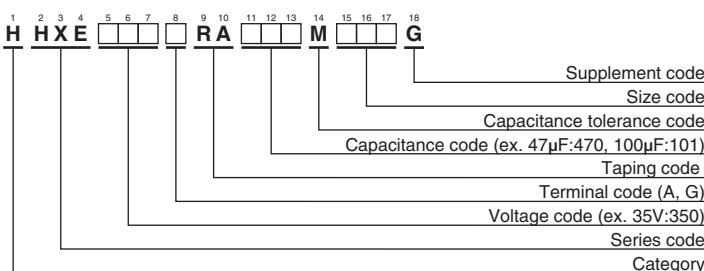
DIMENSIONS [mm]

- Terminal Code : A
- Size code : F61 to JA0
- Terminal Code : G (Vibration resistant structure)
- Size code : HA0 and JA0



Size Code	φD	L	A	B	C	W	P
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

PART NUMBERING SYSTEM



MARKING

EX) 35V270μF



Rated voltage symbol

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

Please refer to "Product code guide (conductive polymer hybrid type)"

◆STANDARD RATINGS

WV (V _{dc})	Cap (μ F)	Size code	ESR (m Ω max./20°C, 100kHz)	Rated ripple current (mA _{rms} /100kHz)		Part No.
				125°C	135°C	
16	82	F61	45	1,700	950	HHXE160ARA820MF61G
	150	F80	27	2,500	1,450	HHXE160ARA151MF80G
	270	HA0	20	3,050	1,700	HHXE160□RA271MHA0G
	470	JA0	18	3,400	2,100	HHXE160□RA471MJA0G
25	56	F61	50	1,400	900	HHXE250ARA560MF61G
	100	F80	30	2,100	1,400	HHXE250ARA101MF80G
	220	HA0	22	2,900	1,600	HHXE250□RA221MHA0G
	330	JA0	20	3,300	2,000	HHXE250□RA331MJA0G
35	47	F61	60	1,400	900	HHXE350ARA470MF61G
	68	F80	35	2,100	1,400	HHXE350ARA680MF80G
	150	HA0	22	2,900	1,600	HHXE350□RA151MHA0G
	270	JA0	20	3,300	2,000	HHXE350□RA271MJA0G

□ : Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μ F) \ Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
47 to 150	0.10	0.40	0.60	0.70	0.80	0.80	1.00
220 to 470	0.13	0.45	0.65	0.75	0.85	0.85	1.00