

# SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

## HXA Series

Useful of 20,000 hours at 85°C (Warranty of 20,000 hours at 85°C)

### Features

- High-reliability series with the warranty of 20,000 hours realized through improvement of the FXA type into a longer-life type



### Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	350 ~ 450V.DC
Leakage current	0.01CV (µA) or 5mA, whichever is smaller or less [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard products table. (85°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 20,000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Others	JIS C 5101-4.

### Ripple current correction coefficient

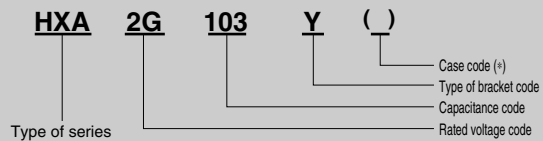
Ambient temperature (°C)	40	60	85		
Correction coefficient	2.44	2.16	1.00		
Frequency (Hz)	50/60	120	300	1K	10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Ripple current should be under 60 Arms at M5 terminal in accordance with from the permissible current.

### Standard value and case size

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 85°C, 120Hz	Product name
350V(2V)	1000	51·75	C8R	0.15	3.8	HXA2V102Y
	1200	51·75	C8R	0.15	4.2	HXA2V122Y
	1500	51·96	C10R	0.15	5.2	HXA2V152Y
	1800	51·96	C10R	0.15	5.6	HXA2V182Y
	2200	51·130	C13R	0.15	7.1	HXA2V222Y
	2700	64·96	D10R	0.15	7.6	HXA2V272Y
	3300	64·115	D12R	0.15	9.0	HXA2V332Y
	3900	64·130	D13R	0.15	10.3	HXA2V392Y
	4700	64·155	D16R	0.15	12.2	HXA2V472YD
		77·115	E12R	0.15	11.5	HXA2V472YE
	5600	64·195	D20R	0.15	14.6	HXA2V562YD
		77·130	E13R	0.15	13.1	HXA2V562YE
	6800	77·155	E16R	0.15	15.5	HXA2V682Y
	8200	90·157	F16R	0.15	18.1	HXA2V822Y
	10000	90·157	F16R	0.15	19.9	HXA2V103Y
	12000	90·196	F20R	0.15	23.8	HXA2V123Y
15000	90·236	F24R	0.15	28.8	HXA2V153Y	

Product code : (Example) HXA type 400V 10,000µF±20%



\* ( ) Case code in parentheses : If two types of shape exist for the same rating, enter the first English letter of case code.

### Attachment of legs

- See page 49 for shapes and dimensions.
- Product names in the Standard Units Rating Table correspond to the attachment legs for Type Y (Type I for ø36 only), but Type I attachment legs may be used (Shape Code = I).
- If attachment legs are not necessary, enter "N" for the attachment leg shape code.
- Attachment legs will be delivered separately.

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 85°C, 120Hz	Product name
400V(2G)	1000	51·75	C8R	0.15	3.8	HXA2G102Y
	1200	51·96	C10R	0.15	4.6	HXA2G122Y
	1500	51·115	C12R	0.15	5.5	HXA2G152Y
	1800	51·130	C13R	0.15	6.4	HXA2G182Y
	2200	64·96	D10R	0.15	6.9	HXA2G222Y
	2700	64·115	D12R	0.15	8.2	HXA2G272Y
	3300	64·130	D13R	0.15	9.5	HXA2G332Y
	3900	64·155	D16R	0.15	11.1	HXA2G392YD
		77·115	E12R	0.15	10.4	HXA2G392YE
	4700	64·195	D20R	0.15	13.4	HXA2G472YD
		77·130	E13R	0.15	12.0	HXA2G472YE
	5600	64·195	D20R	0.15	14.6	HXA2G562YD
		77·155	E16R	0.15	14.4	HXA2G562YE
	6800	90·157	F16R	0.15	16.5	HXA2G682Y
	8200	90·157	F16R	0.15	18.1	HXA2G822Y
	10000	90·196	F20R	0.15	21.7	HXA2G103Y
12000	90·236	F24R	0.15	25.8	HXA2G123Y	

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 85°C, 120Hz	Product name
450V(2W)	1000	51·96	C10R	0.15	4.2	HXA2W102Y
	1200	51·115	C12R	0.15	5.0	HXA2W122Y
	1500	51·130	C13R	0.15	5.8	HXA2W152Y
	1800	64·96	D10R	0.15	6.2	HXA2W182Y
	2200	64·115	D12R	0.15	7.4	HXA2W222Y
		64·130	D13R	0.15	8.6	HXA2W272YD
	2700	77·115	E12R	0.15	8.7	HXA2W272YE
		64·155	D16R	0.15	10.2	HXA2W332YD
	3300	77·130	E13R	0.15	10.0	HXA2W332YE
		64·195	D20R	0.15	12.2	HXA2W392Y
	3900	64·195	D20R	0.15	12.2	HXA2W392Y
	4700	77·155	E16R	0.15	12.9	HXA2W472Y
		64·195	D20R	0.15	15.4	HXA2W562YE
	5600	90·157	F16R	0.15	14.9	HXA2W562YF
		6800	90·196	F20R	0.15	18.0
	8200	90·196	F20R	0.15	19.8	HXA2W822Y
10000	90·236	F24R	0.15	23.5	HXA2W103Y	