

# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

## HV2 Series

Useful of 4,000 hours at 105°C (Warranty of 2,000 hours at 105°C)

• Conform RoHS

### Features

• The HV2 type is the same as the HU3 type. with 20mm height.



Product code: (Example) HV2 series 400V 100µF±20%

**HV2 2G 101 M C A WP EC**

Lead-Free and PVC-Free(standard) Without plate(standard)  
Case dia code  
Terminal code  
Capacitance tolerance code  
Capacitance code  
Rated voltage code

Type of series

Case dia code	Code
22	X
25	Y
30	Z
35	A

Refer to page (85) for other terminal shape available on request

### Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C
Rated voltage	160 ~ 400V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.02CV (µA) or 3mA, 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. (105°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 105°C for 2000 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

Temperature (°C)	60	70	85	105	
Correction coefficient	2.2	2.0	1.8	1.0	
Frequency (Hz)	50/60	120	300	1K	≥ 10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

A continuous load should be avoided over 10 A at the terminal in accordance with the permissible current.

### Standard Products Table

Rated Voltage Code (Surge Voltage) (V. DC)	Capacitance (µF)	Case size øDXL (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR (typ.) 20°C, 100Hz (mΩ)	Product name
160 2C (200)	150	22×20	0.15	0.57	955	HV22C151MCXWPEC
	220	25×20	0.15	0.70	650	HV22C221MCYWPEC
	330	30×20	0.15	0.94	430	HV22C331MCZWPEC
	470	35×20	0.15	1.19	305	HV22C471MCAWPEC
180 2P (225)	100	22×20	0.15	0.46	1242	HV22P101MCXWPEC
	150	22×20	0.15	0.57	828	HV22P151MCXWPEC
	220	25×20	0.15	0.70	565	HV22P221MCYWPEC
	330	35×20	0.15	1.00	376	HV22P331MCAWPEC
200 2D (250)	470	35×20	0.15	1.19	264	HV22P471MCAWPEC
	100	22×20	0.15	0.46	1067	HV22D101MCXWPEC
	150	25×20	0.15	0.58	711	HV22D151MCYWPEC
	220	30×20	0.15	0.77	485	HV22D221MCZWPEC
330	35×20	0.15	1.00	323	HV22D331MCAWPEC	

Rated Voltage Code (Surge Voltage) (V. DC)	Capacitance (µF)	Case size øDXL (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR (typ.) 20°C, 100Hz (mΩ)	Product name
250 2E (300)	68	22×20	0.15	0.38	1568	HV22E680MCXWPEC
	100	22×20	0.15	0.46	1067	HV22E101MCXWPEC
	150	30×20	0.15	0.63	711	HV22E151MCZWPEC
	220	35×20	0.15	0.82	485	HV22E221MCAWPEC
350 2V (400)	47	22×20	0.15	0.32	2100	HV22V470MCXWPEC
	68	25×20	0.15	0.39	1452	HV22V680MCYWPEC
	100	30×20	0.15	0.52	987	HV22V101MCZWPEC
	150	35×20	0.15	0.67	658	HV22V151MCAWPEC
400 2G (450)	33	22×20	0.15	0.27	2992	HV22G330MCXWPEC
	47	25×20	0.15	0.33	2100	HV22G470MCYWPEC
	68	30×20	0.15	0.43	1452	HV22G680MCZWPEC
	100	35×20	0.15	0.55	987	HV22G101MCAWPEC

### Life time graph

Useful life depending on ambient temperature  $T_a$  and ripple current operating conditions  $I_r$  versus rated ripple current at 105°C, 120Hz

