

CHIP CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS.

- Series **HVK** Vertical Chip Conductive Polymer Hybrid Aluminum Electrolytic Capacitors.
- For surface mount 125 deg C, 4000 hours guaranteed.
- RoHS Compliant. ● AEC-Q200 Qualified.
- **New P/N : RAHVK101M1TDE7002E** (Old P/N : HVK-25V101MF80EQ-R2)

■ Spec sheet

SQH-046EQ

Item	Performance		
Category temperature range (deg C)	-55 to +125		
Rated Voltage (V)	25		
Rated Capacitance (uF)	100 (20deg C,120Hz)		
Tolerance at rated capacitance (%)	-20 to +20 (20deg C,120Hz)		
Leakage current (uA)	Less than 25 uA (25V after 2minutes) (20deg C)		
Tangent of loss angle (max.)	Rated voltage (V)	25	(20deg C,120Hz)
	Tangent of loss angle	0.14	
ESR (mohm max.)	ESR	30	(20deg C,100kHz)
Rated ripple current (mArms)	Temperature (deg C)	125	(100kHz)
	Rated Ripple Current	1400	
Endurance (125 deg C) (Applied ripple current)	Test time	4000 hours	
	Leakage current	The initial specified value or less	
	Capacitance change	Within -30% to +30% of initial value	
	Tangent of loss angle	200% or less of the initial specified value	
	ESR	200% or less of the initial specified value	
Shelf life (125deg C)	Test time	1000 hours	
	Leakage current	The initial specified value or less	
	Capacitance change	Within -30% to +30% of initial value	
	Tangent of loss angle	200% or less of the initial specified value	
	ESR	200% or less of the initial specified value	
Voltage application treatment			

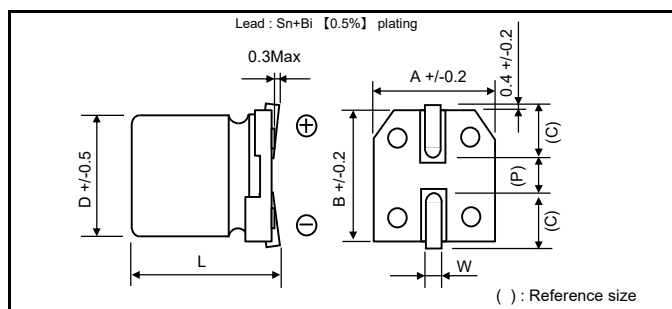
■ Part numbering system

R	A	HVK	101	M	1T	DE7	002	E
Product group Electrolytic capacitor	Category For automotive AEC-Q200	Series code	Rated capacitance code	Capacitance tolerance code	Rated voltage code	Case size code	Taping and packing code	Additional code

■ Coefficient of Frequency for Rated Ripple Current

Rated capacitance(uF)	Frequency(Hz)	120	1k	10k	100k
100		0.10	0.30	0.60	1

■ Outline drawing



D	L	A	B	C	W	P
6.3	7.7+/-0.3	6.6	6.6	2.7	0.5 to 0.8	2.0

■ Marking

Case top printing (Printing in blue ink)

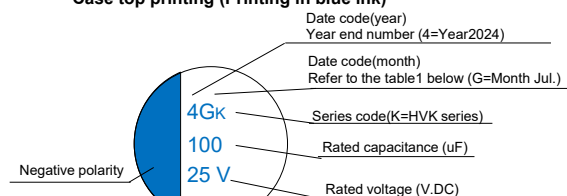


table1

Month	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Code	A	B	C	D	E	F	G	H	I	J	K	L

■ Weight : 0.51 g

*Weight of item isn't guaranteed.

(Note) It is recommended that you shall obtain technical specifications from ELNA CO., LTD to ensure that the component is suitable for your intended use.

ELNA CO., LTD.

<https://www.elna.co.jp/>

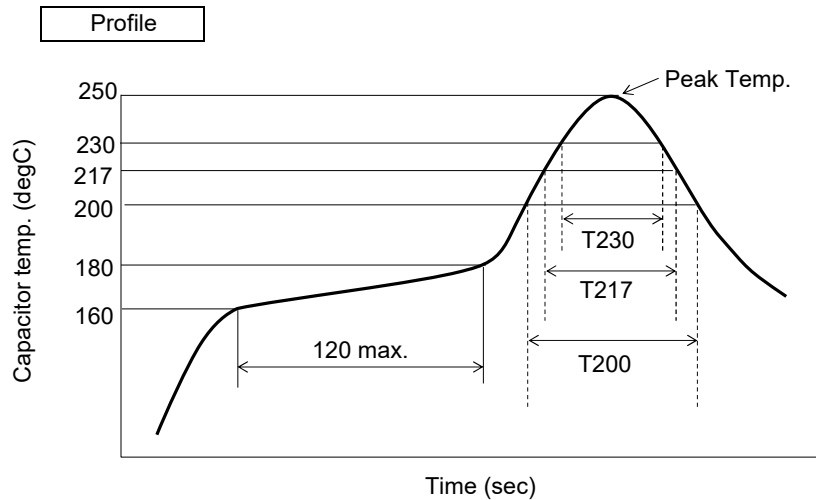
Kyobashi East Bldg., 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan
 TEL:03-4221-4950 FAX:03-4221-4951

■ Recommended soldering condition

(1) Soldering iron conditions

Iron tip temperature shall be 400degC +5/-5degC within the duration of 3 +1/-0 seconds.

(2) Reflow soldering conditions



T200: Duration while capacitor head temperature exceeds 200 degC(sec)

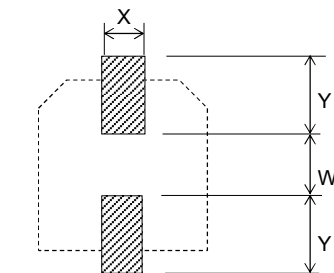
T217: Duration while capacitor head temperature exceeds 217 degC(sec)

T230: Duration while capacitor head temperature exceeds 230 degC(sec)

The measurement temperature point is the case top.

Pre heat	Peak temp. (degC)	Peak temp.	T200 (sec)	T217 (sec)	T230 (sec)	reflow cycle
160 to 180 degC 120sec max	250 max	5sec or less	60 max	50 max	40 max	2 times or less

■ Recommended land pattern size



X	Y	W
1.6	3.6	1.9

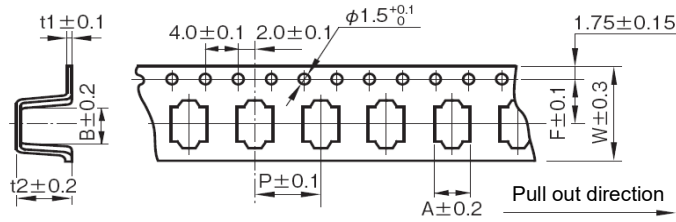
Unit : mm

Recommended Solder Paste Thickness : 0.15mm

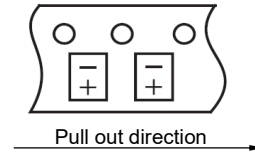
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■ Tape and Reel

(1)Carrier Tape



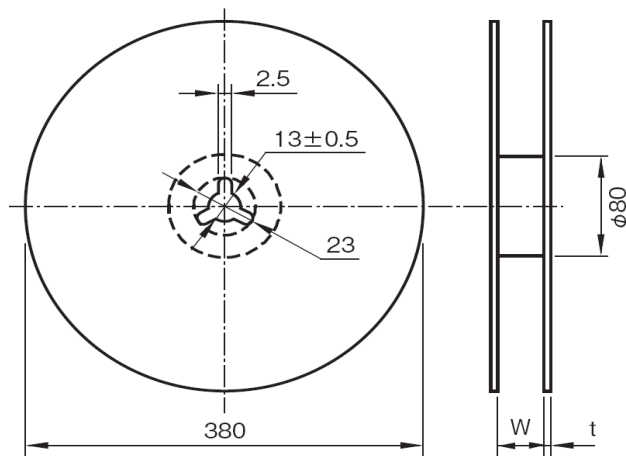
(2)Polarity



Unit : mm

W	A	B	P	t2	F	t1
16	7.0	7.0	12	8.3	7.5	0.4

(3)Reel



Unit : mm

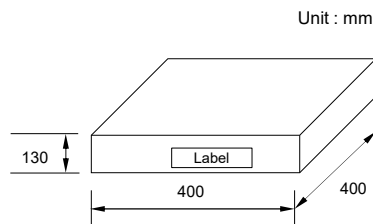
W	t
18	3

(4)Quantity

Case size	Quantity per reel
6.3x7.7	1000 pcs

■ Packing specification

(1)Inner box



Unit : mm

(2)Packing quantity

Case size	Quantity per inner box
6.3x7.7	5000 pcs

(3)Packing weight

Case size	Weight per inner box
6.3x7.7	5.7 kg

*Packing weight isn't guaranteed.

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