

Series **VVD** Vertical Chip Aluminum Electrolytic Capacitors, for General Electronic Equipment.

- For surface mount 105°C, 5000 hours guaranteed.
- RoHS Compliant.

● **P/N: RSVVD331M1GFH0002UA**

■ Spec sheet

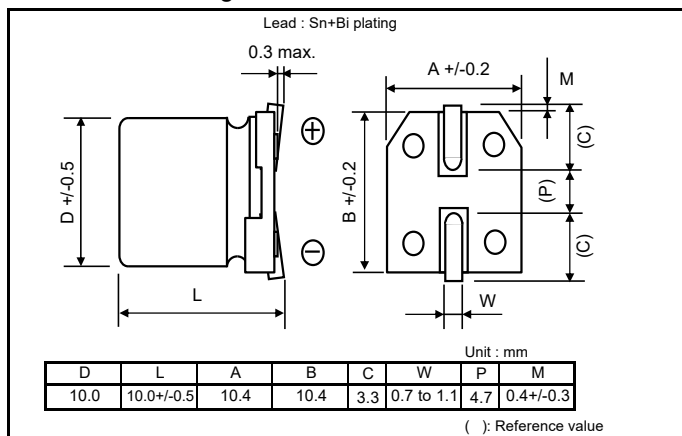
SQR-3219UA
RVD-35V331MH10UA-R2

Item	Performance	
Category temperature range (°C)	-55 to +105	
Rated Voltage (V)	35	
Rated Capacitance (uF)	330 (20°C,120Hz)	
Tolerance at rated capacitance (%)	-20 to +20 (20°C,120Hz)	
Leakage current (uA)	Less than 115 uA (after 2minutes) (20°C)	
Tangent of loss angle (max.)	Rated voltage (V)	35
	Tangent of loss angle	0.12 (20°C,120Hz)
Characteristics at high and low temperature	Rated voltage (V)	35
	Impedance ratio (max.) Z-25 C/Z+20 C	2
	Z-40 C/Z+20 C	3
	Z-55 C/Z+20 C	3 (120Hz)
ESR (ohm max.)	20°C	0.090 (100kHz)
Rated ripple current (mArms)	Rated Ripple Current	850 (105°C,100kHz)
Coefficient of frequency for Rated Ripple Current	Frequency (Hz)	50,60 120 1k 10k 100k
	Coefficient	0.50 0.50 0.75 1 1
Endurance (105°C) (Applied ripple current)	Test time	5000 hours
	Leakage current	The initial specified value or less
	Capacitance change	Within -30% to +30% of initial value
	Tangent of loss angle	300% or less of the initial specified value
Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4	

■ Part numbering system

R	S	VVD	331	M	1G	FH0	002	UA
Product group Electrolytic capacitor	Category For general	Series code	Rated capacitance code	Capacitance tolerance code	Rated voltage code	Case size code	Forming and packing code	Additional code

■ Outline drawing



■ Marking

Case top printing (Printing in black ink)

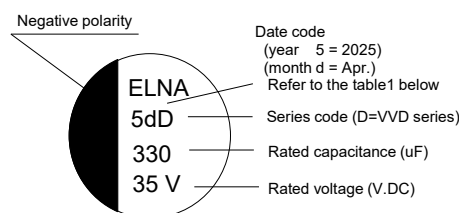


table 1

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 : 1.4 g

*Weight of item isn't guaranteed.

(Note) Specifications and dimensions may change without notice for the purpose of improvement.

(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.ena.co.jp/>

Kyobashi East Bldg. 9F, 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan

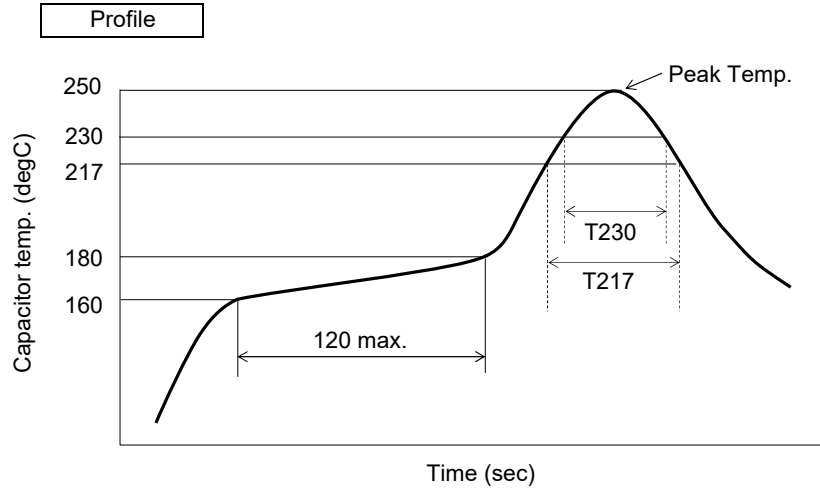
TEL: 03-4221-4950 FAX: 03-4221-4951

■ **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



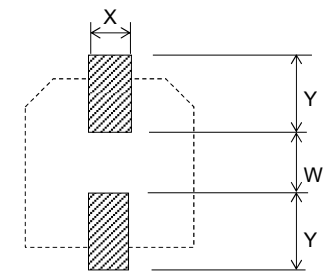
T217: Duration while capacitor head temperature exceeds 217 degC(sec)

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.	T217 (sec)	T230 (sec)	reflow cycle
160 to 180 degC 120sec max	250 max	5sec or less	90 max	40 max	2 times or less

■ **Recommended land pattern size**



X	Y	W
2.5	4.0	4.0

Unit : mm

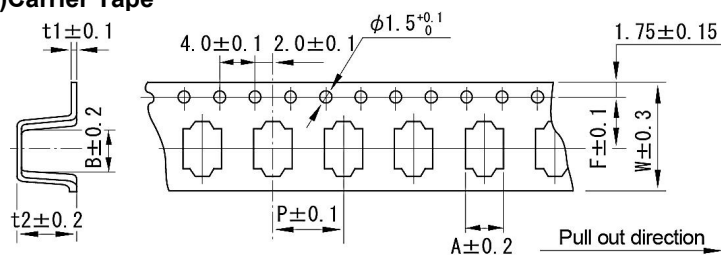
Recommended Solder Paste Thickness : 0.15mm

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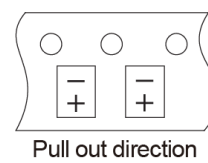
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■ **Tape and Reel**

(1)Carrier Tape



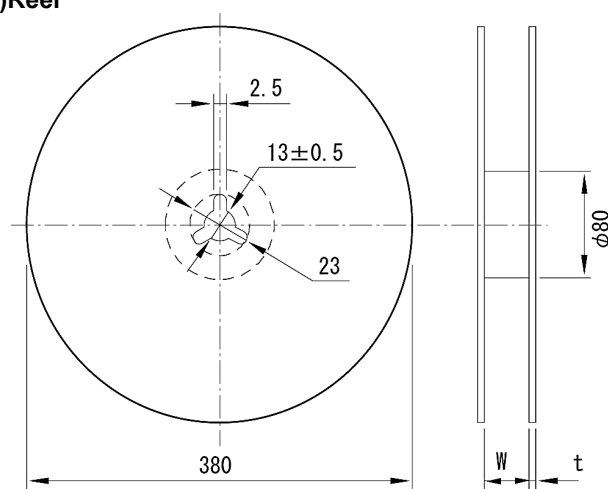
(2)Polarity



Unit : mm

W	A	B	P	t2	F	t1
24.0	10.7	10.7	16.0	11.0	11.5	0.4

(3)Reel



Unit : mm

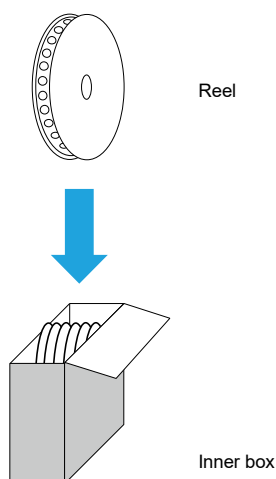
W	t
26	3

(4)Quantity

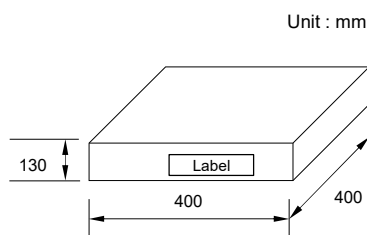
Case size	Quantity per reel
10x10	500 pcs

■ **Packing specification**

(1)Packing style



(2)Inner box



(3)Packing quantity

Case size	Quantity per inner box
10x10	2000 pcs

(4)Packing weight

Case size	Weight per inner box
10x10	5.5 kg

*Packing weight isn't guaranteed.

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