

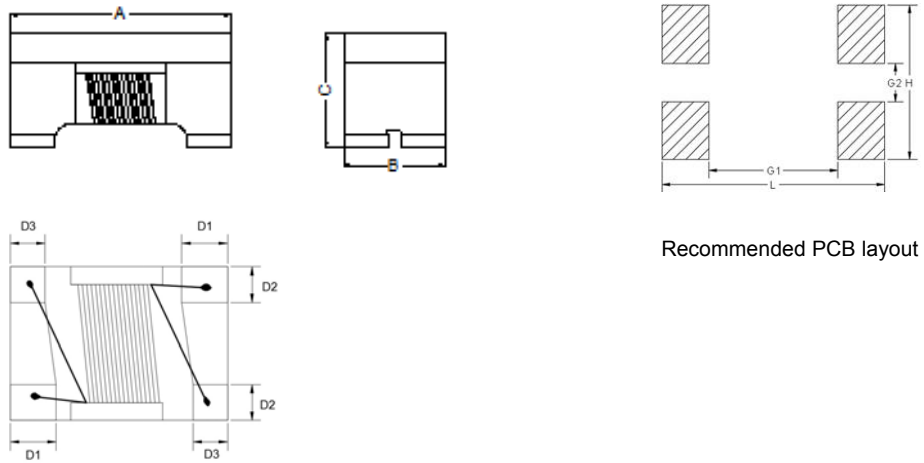
1. Part No. Expression:

**WAQ7FW201-RA-10**

(a) (b) (c) (d) (e)(f) (g)

- (a) Series Code
- (b) Dimension Code
- (c) Material Code
- (d) Inductance Code
- (e) Packaging Code
- (f) Current Rating Code
- (g) Internal Controlled Number

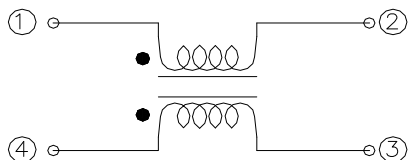
2. Configuration & Dimensions:



Unit: mm

A	B	C	D1	D2	D3	L	H	G1	G2
4.5±0.2	3.2±0.2	2.8±0.15	0.8±0.2	0.85±0.2	0.6±0.2	5.0 Ref.	3.6 Ref.	3.4 Ref.	1.7 Ref.

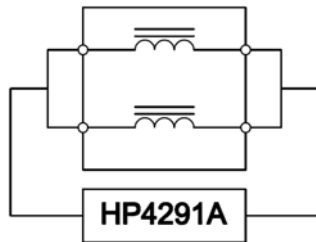
3. Schematic:



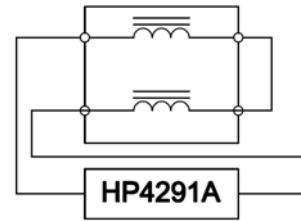
NOTE: Specifications subject to change without notice. Please check our website for latest information.

#### 4. Measuring Circuits:

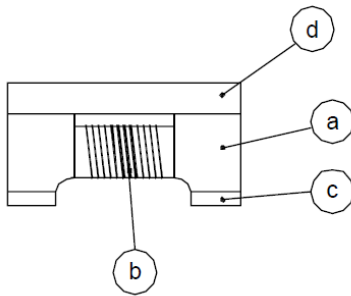
**Common mode**



**Differential mode**



#### 5. Material List:



- (a) Core
- (b) Wire
- (c) Terminal
- (d) Upper Plate

#### 6. General Specification:

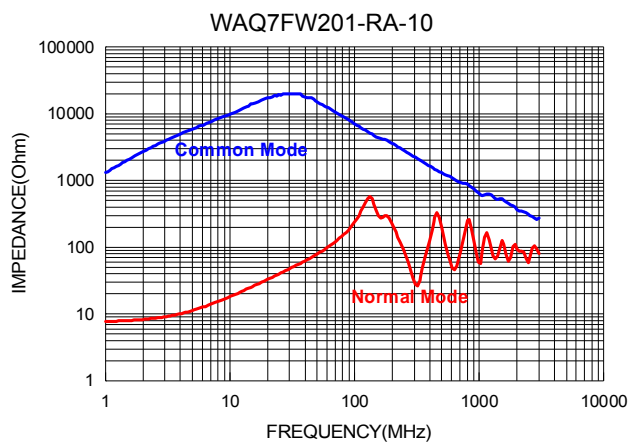
- (a) Reliability test for this part meets AEC-Q200 standard.
- (b) Operating Temp. :  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  (Including self - temperature rise).
- (c) Storage Temp. :  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  (on board).
- (d) Humidity Range:  $85 \pm 3\%$  RH.
- (e) Storage Condition (Component in its packaging)
  - i) Temperature: Less than  $40^{\circ}\text{C}$
  - ii) Humidity : 60% RH

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**7. Electrical Characteristics:**

Part Number	Inductance (uH)+60/-20uH	Test Frequency (Hz)	DCR (Ω) Max.	Rated Current (mA)	Rated Volt (Vdc)	IR (Ω) Min.
WAQ7FW201-RA-10	200	0.1V/100K	4.5	100	50	10M

**8. Characteristics Curves:**



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**9. Soldering:**

Mildly activated rosin fluxes are preferred. Our terminations are suitable for all re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

**9-1 Solder Re-flow**

Recommended temperature profiles for re-flow soldering in Figure 1.

**9-2 Soldering Iron (Figure 2)**

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Note :

- a) Preheat circuit and products to 150°C.
- b) 355°C tip temperature (Max.)
- c) Never contact the ceramic with the iron tip
- d) 1.0mm tip diameter (Max.)
- e) Use a 20 watt soldering iron with tip diameter of 1.0mm
- f) Limit soldering time to 4~5 sec.

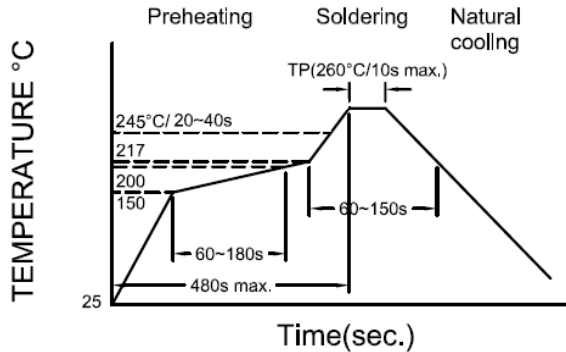


Figure 1. : Re-flow Soldering time 3 times Max.

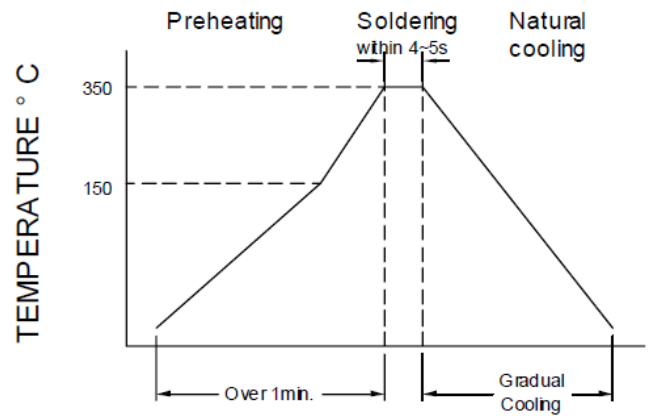
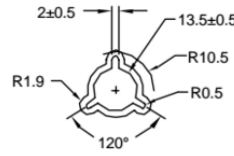
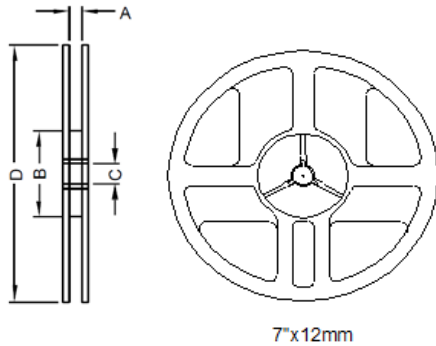


Figure 2. : Iron Soldering time 1 times Max.

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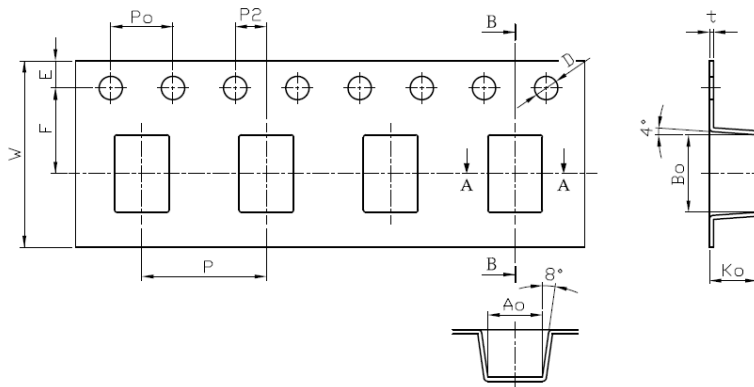
10. Packaging Information:

10-1 Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x12mm	13.5±0.5	60.0±2.0	13.5±0.5	178±2.0

10-2 Tape Dimension

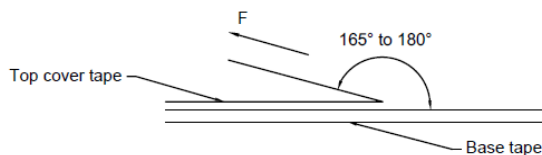


Size	P(mm)	P <sub>0</sub> (mm)	P <sub>2</sub> (mm)	B <sub>0</sub> (mm)	A <sub>0</sub> (mm)	K <sub>0</sub> (mm)
	8.00±0.10	4.00±0.10	2.00±0.05	4.90±0.10	3.60±0.10	3.00±0.10
WAQ7FW	D(mm)	E(mm)	F(mm)	W(mm)	t(mm)	
	1.05+0.10/-0.00	1.75±0.10	5.50±0.05	12.00±0.10	0.26±0.05	

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**10-3 Packaging Quantity**

Chip Size	WAQ7FW
Chip/Reel	500
Inner Box	2,000
Middle Box	10,000
Carton	20,000

**10-4 Tearing Off Force**

The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

**Application Notice:****1. Storage Conditions:**

To maintain the solderability of terminal electrodes:

- a) Recommended products should be used within 12 months from the time of delivery.
- b) The packaging material should be kept where no chlorine or sulfur exists in the air.

**2. Transportation:**

- a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- b) Vacuum pick up is strongly recommended for individual components.
- c) Bulk handling should ensure that abrasion and mechanical shock are minimized.

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