1. Part No. Expression

<u>WD3216F600A</u>-<u>RB</u>-<u>10</u>

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

- (a) Series Code
- (b) Dimension Code
- (c) Material Code
- (d) Inductance Code

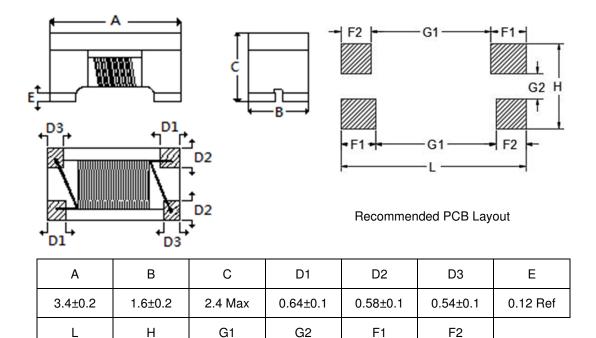
- (e) Packaging Code
- (f) Current Code

0.7 Ref

0.6 Ref

(g) Special Code

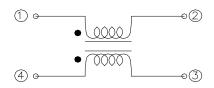
2. Configuration & Dimensions: (Unit:- mm)



0.5 Ref

3. Schematic

3.7 Ref

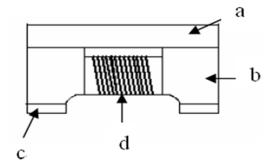


1.7 Ref

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

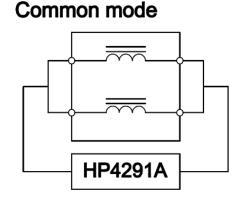
2.4 Ref

4. Material List

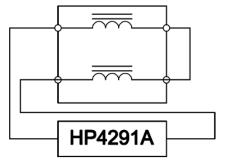


a)	Upper Plate		
b)	Core		
c)	Terminal		
d)	Wire		

5. Measuring Circuits 2 Lines



Differential mode



6. General Specifications

- (a) Operating Temp. : -40°C to +85°C (Including self temperature rise).
- (b) Storage Temp. : -40°C to +85°C (On board).
- (c) Irms: Based on temperature rise ΔT 40°C Max at rated current.
- (d) Storage Condition (Component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity: 60% RH

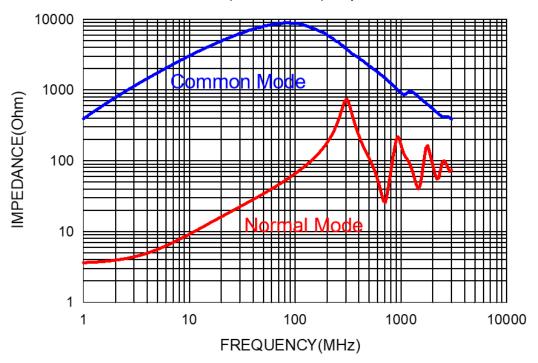
NOTE: Specifications subject to change without notice. Please check our website for latest information.
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7. Electrical Characteristics

Part Number	Inductance (uH) @0.1V/100kHz Min	DCR (Ω) Max	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc) Max	IR (MΩ) Min
WD3216F600A-RB-10	60	1.1	200	50	125	10

8. Characteristics Curve



Impedance vs Frequency

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

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

9-1 IR Soldering Reflow

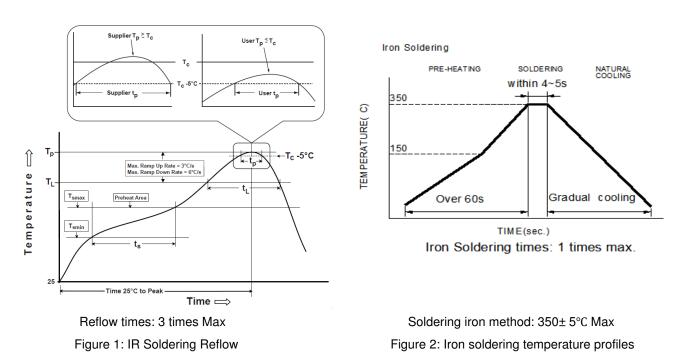
Recommended temperature profiles for lead free re-flow soldering in Figure 1, Table 1.1 & 1.2 (J-STD-020E).

9-2 Iron Reflow

Products attachment with a 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 (Figure 2).

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.



Profile Type:	Pb-Free Assembly	
Preheat		
-Temperature Min (T _{smin})	150°C	
-Temperature Max (T _{smax})	200°C	
-Time (t _s) from (T _{smin} to T _{smax})	60-120seconds	
Ramp-up rate (T∟to T _P)	3°C/second max.	
Liquidus temperature (TL)	217°C	
Time (t _L) maintained above T_L	60-150 seconds	
Classification temperature (T _c)	See Table (1.2)	
Time (t_p) at Tc- 5°C (Tp should be equal to or less than Tc.)	< 30 seconds	
Ramp-down rate $(T_p$ to $T_L)$	6°C /second max.	
Time 25°C to peak temperature	8 minutes max.	

Table (1.1): Reflow Profiles

Tp: maximum peak package body temperature, **Tc**: the classification temperature.

For user (customer) **Tp** should be equal to or less than **Tc**.

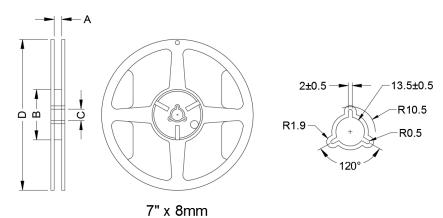
	Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6-2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

Table (1.2) Package Thickness/Volume and Classification Temperature	(T₀)
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Reflow is referred to standard IPC/JEDEC J-STD-020E.

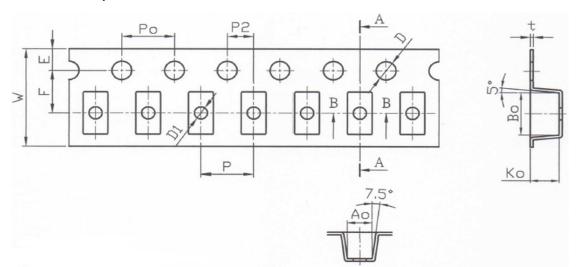
10. Packaging Information

10-1 Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

10-2 Tape Dimension / 8mm



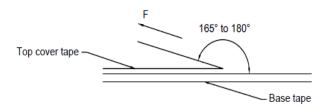
Series	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)
Genes	4.00±0.10	4.00±0.10	2.00±0.05	3.50±0.10	1.88±0.10	2.20±0.10
WD3216F	W(mm)	t(mm)	E(mm)	F(mm)	D(mm)	D1(mm)
VVD3210F	8.00±0.10	0.26±0.05	1.75±0.10	3.50±0.05	1.50+0.10/-0	1.00±0.10



10-3 Packaging Quantity

Chip Size	WD3216F	
Chip / Reel	2000	
Inner Box	10000	
Middle Box	50000	
Carton	100000	

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.

R	loom 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.

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- b) Vacuum pick up is strongly recommended for individual components.
- c) Bulk handling should ensure that abrasion and mechanical shock are minimized.