1. Part No. Expression

<u>WD3532FU750</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

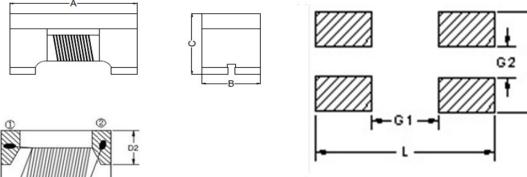
- (e) Packaging Code
- (f) Current Code
- (g) Special Code

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

D2

3

D1

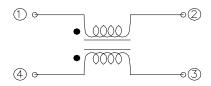


Recommended PCB Layout

А	В	С	D1	D2	L	Н	G1	G2
3.5±0.2	3.2±0.2	2.3±0.2	0.63±0.1	1.18±0.1	4.40 Ref	3.80 Ref	2.45 Ref	0.90 Ref

3. Schematic

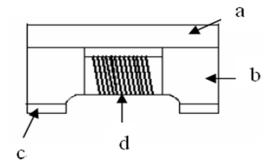
D1



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

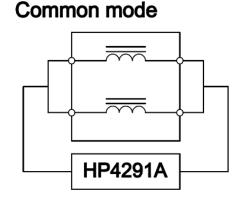
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4. Material List

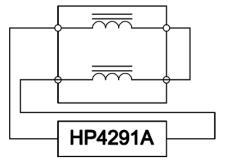


a)	Upper Plate
b)	Core
c)	Terminal
d)	Wire

5. Measuring Circuits 2 Lines



Differential mode



6. General Specifications

- (a) Operating Temp. : -40°C to +125°C (Including self temperature rise).
- (b) Storage Temp. : -40°C to +125°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

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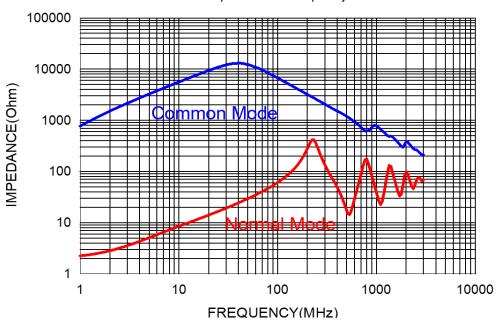
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08/04/2021

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
WD3532FU750-RB-10	75~160	1.3	200	50	125	10

8. Characteristics Curve



Impedance vs Frequency

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).

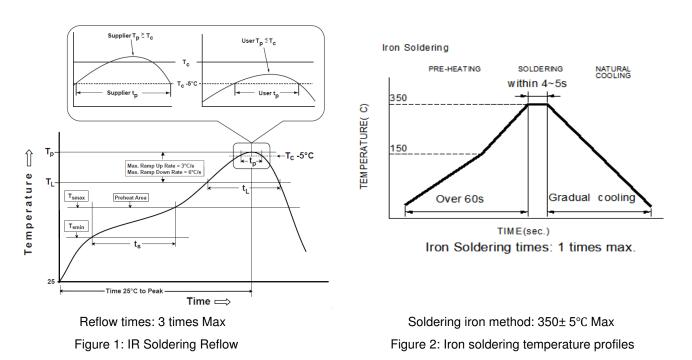
9-2 Iron Reflow

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:

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- 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**.

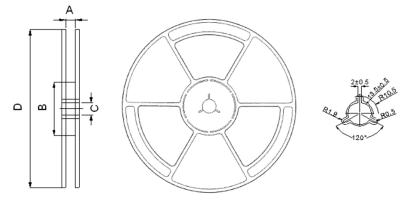
	Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
	<1.6mm	260°C	260°C	260°C
PB-Free	1.6-2.5mm	260°C	250°C	245°C
Assembly	≥2.5mm	250°C	245°C	245°C

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

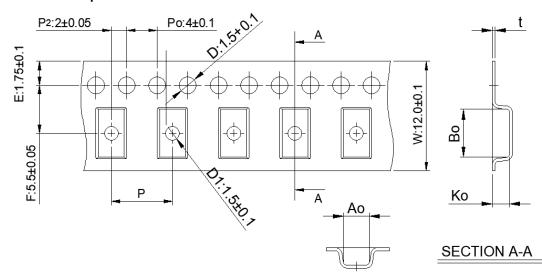
10. Packaging Information

10-1 Reel Dimension



	13 "x12mm						
Туре	A(mm)	B(mm)	C(mm)	D(mm)			
13"x12mm	12±1.5	100±0.5	13.2±0.5	330±0.5			

10-2 Tape Dimension / 12mm



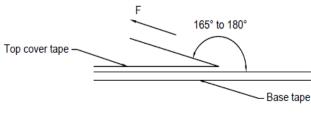
Series	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
WD3532FU	3.80±0.1	3.40±0.1	2.50±0.1	8.00±0.1	0.26±0.05

P7

10-3 Packaging Quantity

Chip Size	WD3532FU
Chip / Reel	2000
Inner Box	4000
Carton	32000

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.

De	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.

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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.

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