

## 1. Part No. Expression:

**WB3F50011-TE2**

(a)            (b)    (c)    (d)

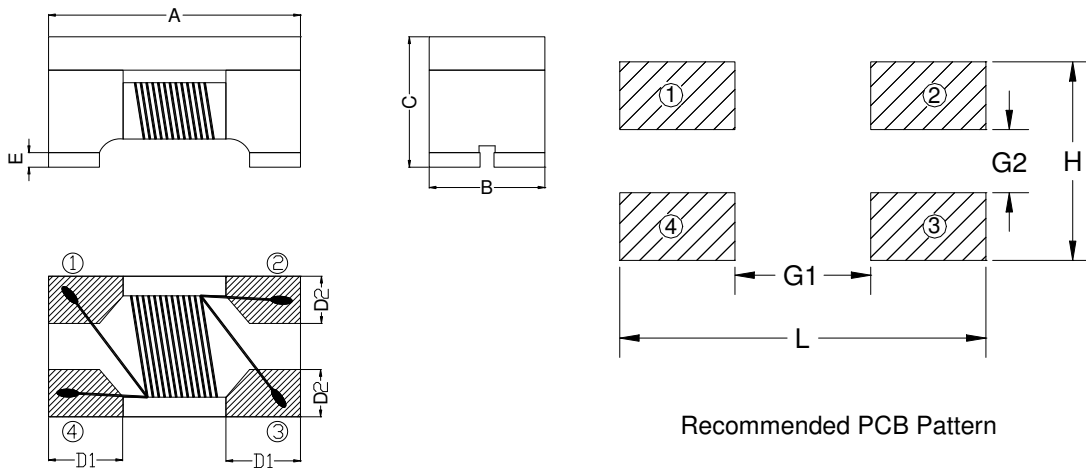
(a) Series Code

(c) Turns Rate Code

(b) Impedance Code

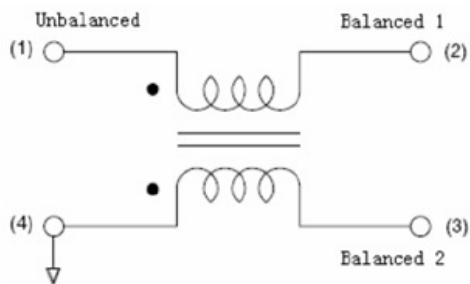
(d) Internal Code

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



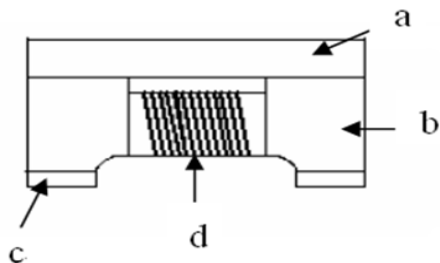
A	B	C	D1	D2	E	L	G1	G2	H
2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1	2.60 Ref	1.25 Ref	0.45 Ref	1.40 Ref

## 3. Schematic:



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

## 4. Material List:



- a) Upper Plate
- b) Core
- c) Termination
- d) Wire

## 5. General Specifications:

- (a) Operating Temp. : -40°C to +125°C (including self-rise temperature).
- (b) Storage Temp. : -40°C to +125°C (on board).
- (c) Storage Condition (Component in its packaging)
  - i) Temperature: Less than 40°
  - ii) Humidity: 60% RH.

## 6. Electrical Characteristics:

Part Number	UB/B Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) Max.	Rated Power (dBm) Max.	Rated Volt. (DCV) Max.	Withstand Volt. (DCV) Max.	IR (MΩ) Min.	Insertion Loss (dB) Max	CMRR (dB)
WB3F50011-TE2	50/50	400~1800	0.50	27	20	125	10	2.2	15 (typ.)
WB3F50011-T02	50/50	40~860	1.00	27	20	125	10	2.5	20 (typ.)
WB3F50011-MN2	50/50	100~1000	0.35	27	20	50	10	1.0	10 (min.)
WB3F50011-ST2	50/50	45~870	1.00	27	20	50	10	1.2	20 (min.)
WB3F75011-TE2	75/75	400~1800	0.50	27	20	125	10	2.0	15 (typ.)
WB3F75011-T02	75/75	50~1200	0.70	27	20	125	10	1.2	20 (typ.)
WB3F75011-MS2	75/75	1000~1500	0.59	27	20	50	10	1.4	20 (min.)
WB3F75011-MT2	75/75	50~1200	0.77	27	20	50	10	1.0 (1) 1.2 (2)	20 (min.)
WB3F75011-SA2	75/75	45~870	0.88	27	20	50	10	1.0	20 (min.)
WB3F75011-SB2	75/75	50~1200	0.70	27	20	50	10	1.2	20 (min.)
WB3F75011-122	75/75	1000~1500	0.59	27	20	50	10	1.4	20 (min.)

- Note: (1) 50~870MHz = 1.0  
 (2) 870~1200MHz = 1.2

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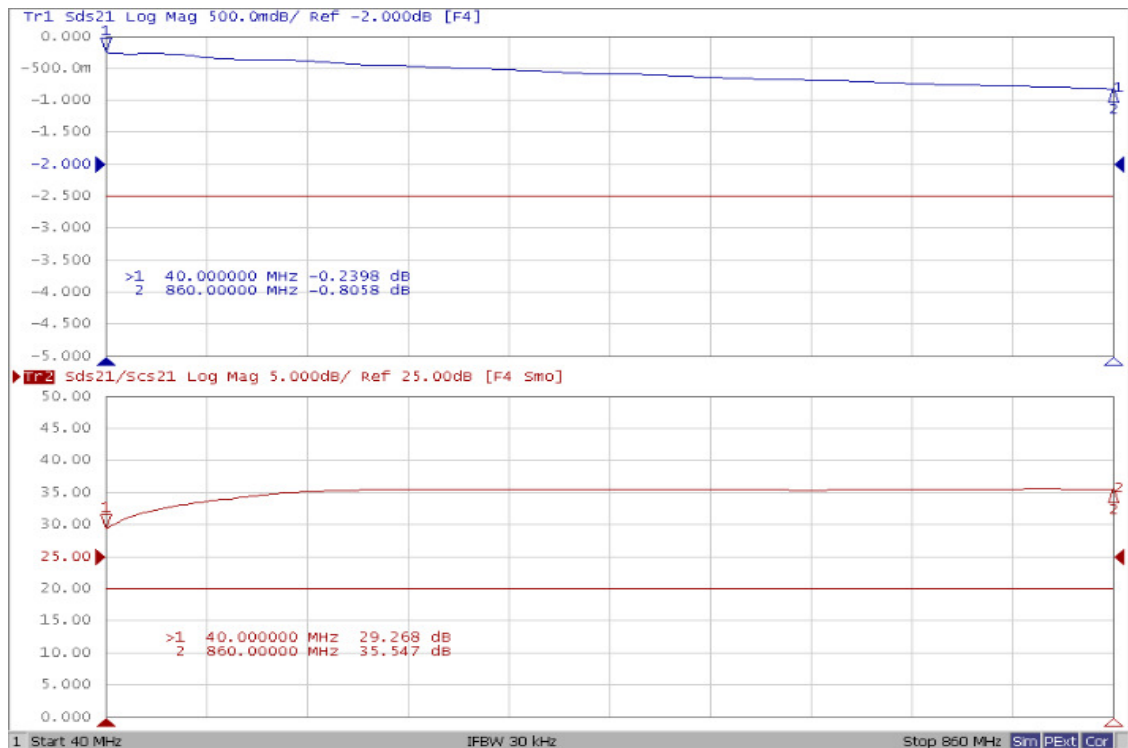


## 7. Characteristics Curves:

WB3F50011-TE2



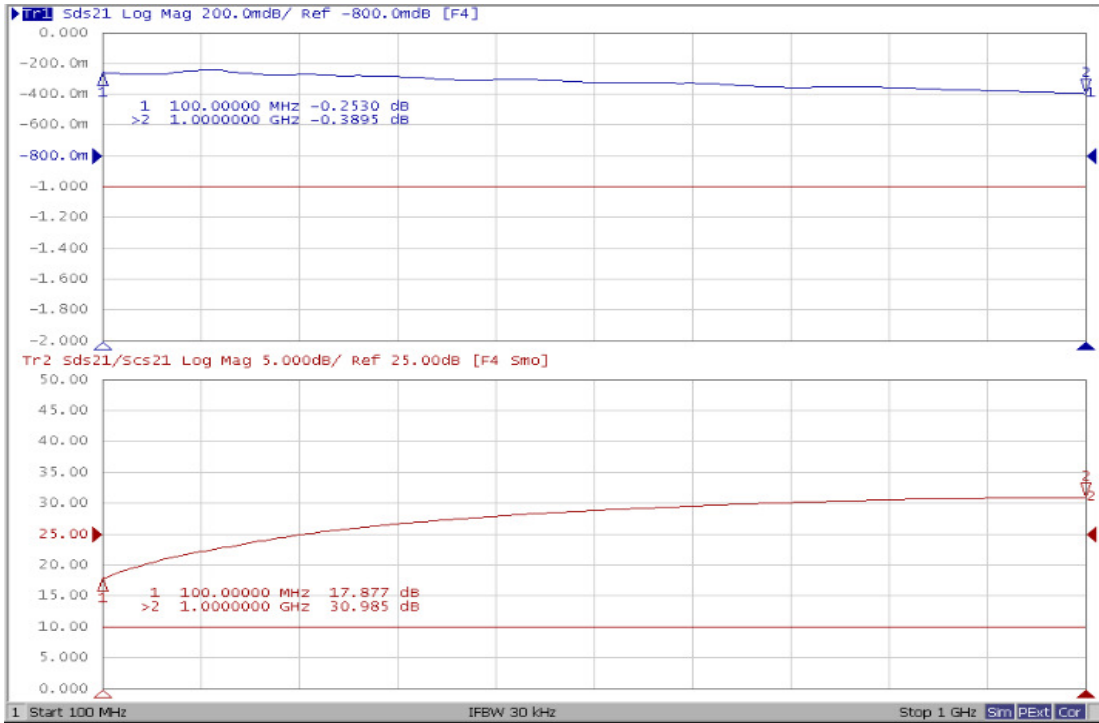
WB3F50011-T02



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## WB3F50011-MN2



## WB3F50011-ST2



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## WB3F75011-TE2



## WB3F75011-T02



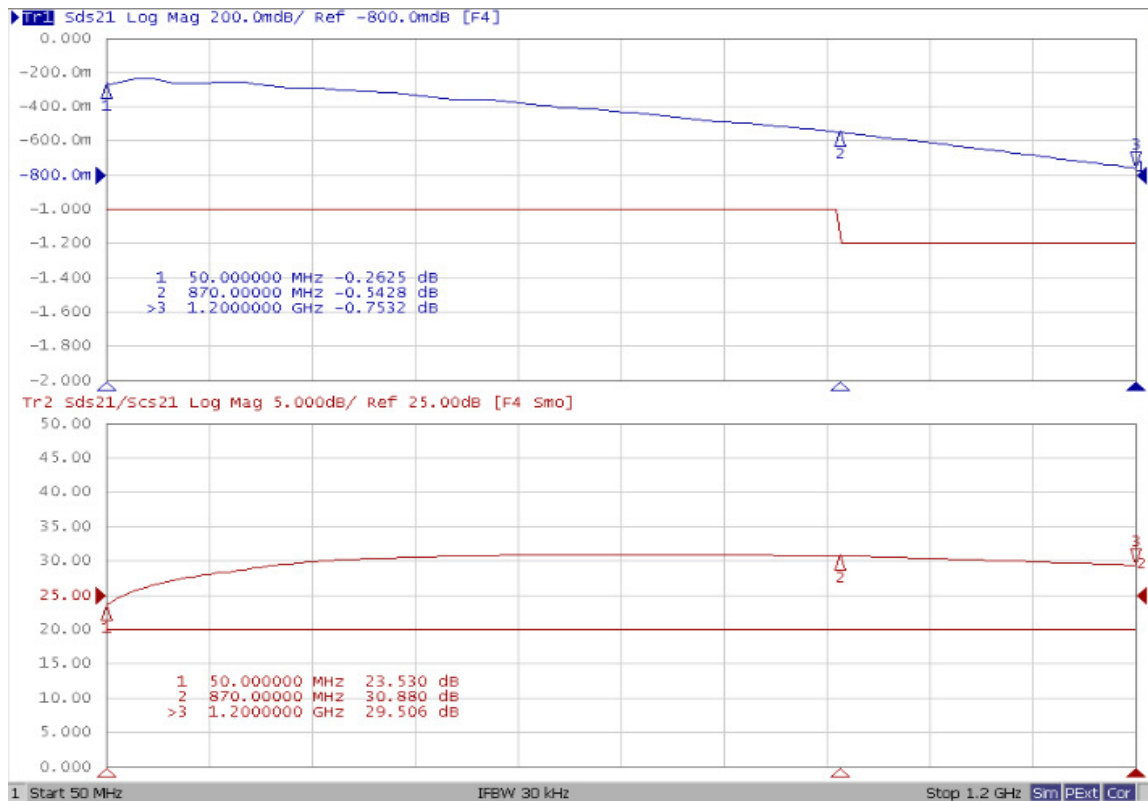
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## WB3F75011-MS2



## WB3F75011-MT2



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## WB3F75011-SA2



## WB3F75011-SB2



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## WB3F75011-122



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**8. Soldering and Mounting:**

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.

**8-1 Lead Free Solder Re-flow**

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

**8-2 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) 350°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.

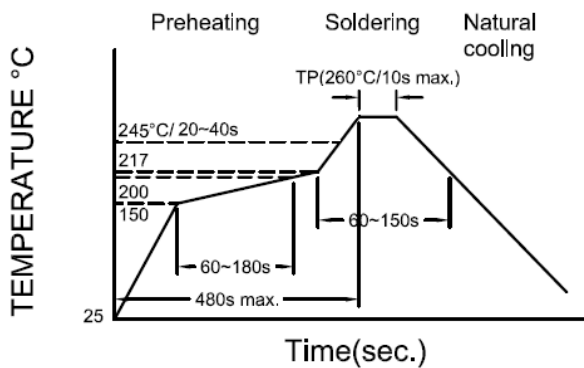


Figure 1: Re-flow Soldering time 3 times Max

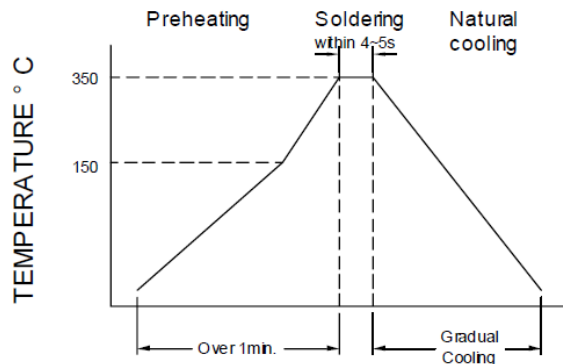


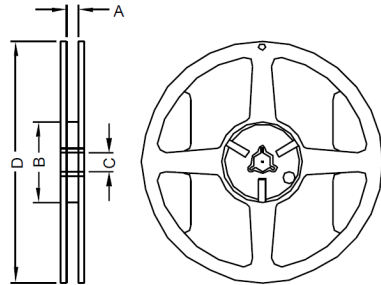
Figure 2: Iron Soldering time 1 times Max

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9. Packaging Information:

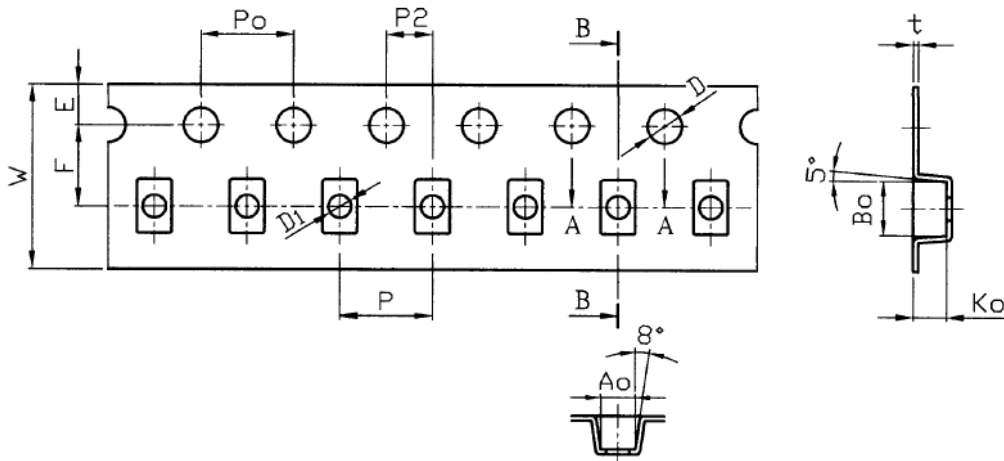
9-1 Reel Dimension



7" x 8mm

Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60.0±2.0	13.5±0.5	178.0±2.0

9-2 Tape Dimension/ 8mm



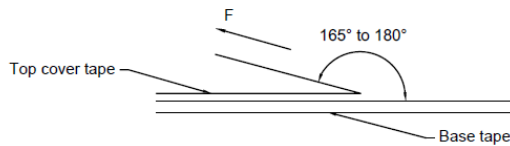
Series	W(mm)	P(mm)	E(mm)	F(mm)	P2(mm)	D(mm)
	8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50+0.10/-0.00
WB3F	D1(mm)	P0(mm)	A0(mm)	B0(mm)	K0(mm)	t(mm)
	1.00±0.10	4.00±0.10	1.50±0.10	2.35±0.10	1.45±0.10	0.28±0.05

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## 9-3 Packaging Quantity

Chip Size	WB3F
Chip/Reel	2,000
Inner Box	10,000
Middle Box	50,000
Carton	100,000

## 9-4 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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