新弘智	DATE: Jul.26,2018
CUSTOMER'S PRODUCT NAME:	
EMTEK PRODUCT NAME:	
BLN2012-750-2P-T1	
THIS SPECIFICATION IS:	
☐ FULLY ACCEPTED	
☐ DENIED	ROHS
\square ACCEPTED UNDER THE FOLLOWING CONDITIONS	COMPLIANT
SIGNATURE:	DATE:
NAME(PRINT):	
TITLE:	



SPEC. NO: T-0634-003K

FACTORY:

39,Chingao Rd.,(305)Hsinpu, Hsinchu Hsien,Taiwan,R.O.C

TEL: 03-5894-433 FAX: 03-5894-523

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SPEC. No.

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1. Scope

This specification applies Micro Chip Transformers BLN2012-750-2P-T1 to be delivered to user.

1:1 Broad Band Baluns For TV Tuner Apprications

1-1 Features

- 1. Ultra Miniture Wire Wound Transformer (2.0 x 1.2 x 1.2mm)
- 2. Low Insertion Loss
- 3. Wideband Frequency Range
- 4. Srface Mount

1-2 Apprications

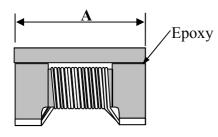
TV tuners, Cable TV tuners and Comunication apprications that require unbalance mode to balance mode conversion.

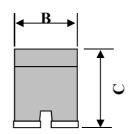
2. Product Identification

BLN 2012 - 750 - <u>2P</u> - <u>T1</u>

- (1) (2)
- (3) (4) (5)
- (1) Product name
- (2) Shapes and dimensions
- (3) Impedance 750.75Ω
- (4) Number of Line: 2P: 2-Line
- (5) Taping Type

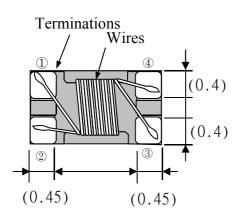
3. Shapes and Dimensions





A: 2.0 ± 0.2 mm B: 1.2 ± 0.2 mm

 $C: 1.2 \pm 0.2 \text{ mm}$



Drawn by	Checked by	Approved by
Cindy	Theng	Dragon
Hay 29.215	May , 29-2015	My 29 2015

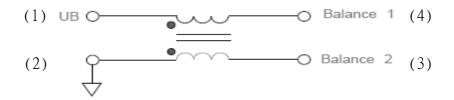


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4. Equivalent Circuit

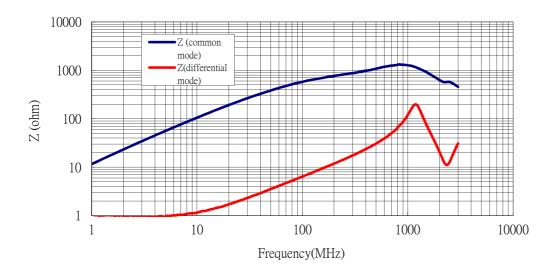


5. Electrical Characterisitcs

5-1 Electrical Spec.

Our Product Part Number	Frequency Range (MHz)	Unbalance Impedance (Ω)	Balance Impedance (Ω)	Insertion Loss(dB) Typ.	CMRR (dB) Typ.	Rated Current (mA)	Rated Voltage (V)	Withstand Voltage (V)	Insulation Resistance $(M\Omega)$
BLN2012-750-2P-T1	50~870	75	75	1.5	20	200	50	125	10

BLN2012-750-2P-T1

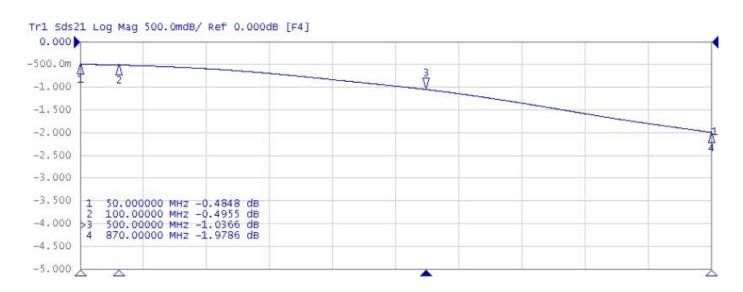


SPEC. No.

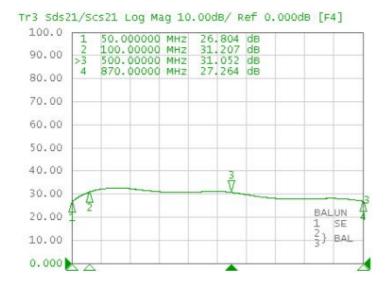
T-0634-003K



Insertion Loss(Reference)



CMRR(Reference)



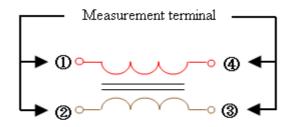
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5-2 Test Equipment

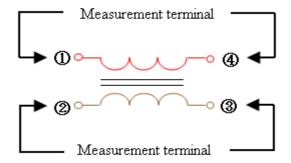
5-2-1 Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.



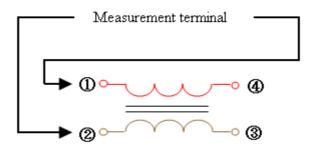
5-2-2 DC Resistance

Measured by using Chroma 16502 mill ohm meter.



5-2-3 Insulation Resistance

Measured by using Chroma 19073 Measurement voltage: 50V



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6. Reliability Test

o. Kenability					
Operating temp	erature : -40 to +105°C	Storage temp and humidity: 20~25°C 60%RH max.			
Item	Specifications	Test conditions			
Solder ability	It can be connected on the Recommendation soldering condition.	Apply cream solder to the test circuit board. It is mounted on the recommendation soldering condition.			
Terminal	The terminal electrode and the	Solder a chip to test substrate, and then laterally			
strength	ferrite must not be damaged.	apply a load 0.5Kg in the arrow direction. Fest Board φ1.0			
Strength on	The terminal electrode and the	Soldering a chip to a test substrate,			
PC Board bending	ferrite must not be damaged. 40 length	bend the substrate by 2mm and then return. Width side			

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Item	Specifications	Test conditions
	10 20 R10	Force Dimensions in mm
		e epoxy multiplayer board pc board pattern.
High temperature resistance	Appearance: Ferrite shall not be damaged. Impedance: Within $\pm 20\%$ of the initial value. insulation resistance: $>10(M\Omega)$ DC resistance: standard value	Temperature: +105±2°C Applied voltage: Rated voltage Applied current: Rated current Testing time: 50±12 hours Measurement: After placing for 24 hours min.
Humidity resistance	inside.	Temperature: +85±2°C Humidity: 40 to 60%RH Applied current: Rated current Applied voltage: Rated voltage Testing time: 500±12 hours Measurement: After placing for 24 hours min.
Thermal cycle		Temperature: -25°C,+85°C kept stabilized for 30 minutes each. Cycle: 5 cycle Measurement: After placing for 24 hours min. 1 cycle -40°C 30 min.

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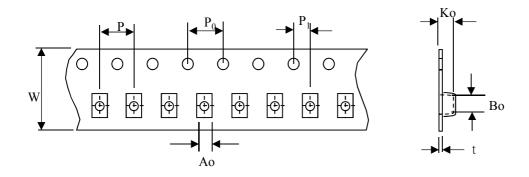


Item	Specifications	Test conditions
Low		Temperature : -40±2°C
temperature		Testing time: 48±12 hours
resistance		Measurement: After placing for 24 hours min.
Vibration	Appearance: Ferrite shall not be	Frequency: 10 to 50 Hz
	damaged.	Amplitude: 1.52 mm
		Dimension and times: X, Y and Z directions
		for 2 hours each.

7. Packaging

The packaging must be done not to receive any damage during transporting and storing.

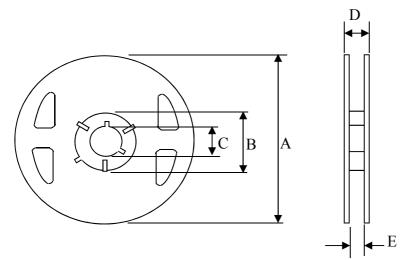
7-1 Tape dimensions



(Dimensions in mm; Tolerance : ± 0.1)

Symbol	W	P	P_0	P_1	Ao	Во	Ko	t
Dimension	8	4	4	2	1.6	2.42	1.14	0.22

7-2 Reel dimensions



(Dimensions in mm)

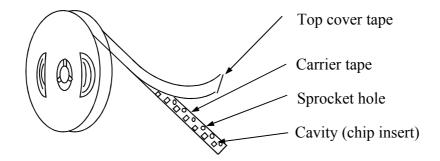
Symbol	T
A	180
В	60
С	13
D	14.4
Е	8.4

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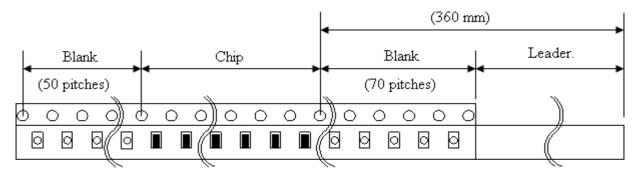


7-3 Tapping figure



7-4 Packaging Form

There shall not continuation more than two vacancies of the product.



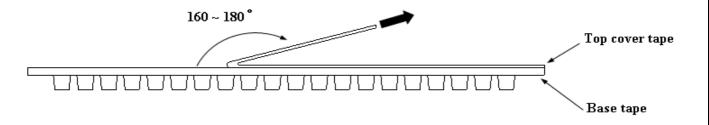
Material of carrier tape : Polystyrene Material of cover tape : Polyester

7-5 Cover Tape Peel Strength

The force for tearing off cover tape is 0.05~0.69(N) in the arrow direction at the following conditions:

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa



7-6 Packing Quantity

 $\phi 180 \ mm$ reel T type : 2000 pcs./reel

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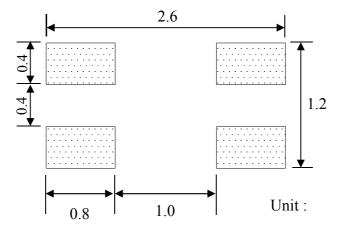
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8. Recommended Soldering Conditions (Please use this product by reflow soldering)

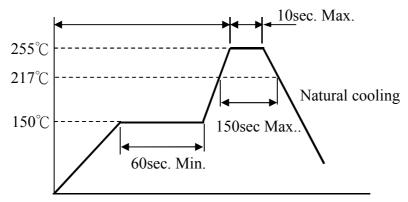
8-1 Recommended Footprint

Termination Number: Please refer to the equivalent circuit in chapter 3.



8-2 Recommended Reflow Pattern

Reflow: until two times.



8-3 Iron Soldering

Use a solder iron of less than 30W when soldering, do not allow the soldering iron tip directly touch the ferrite body outside of terminal electrode.

4 seconds max. at 260° C.

9. Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.

10. Other

Recommended wire wound inductors should be used within 6 months from the time of delivery.



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