

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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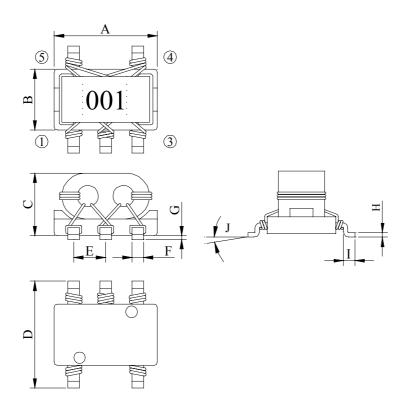




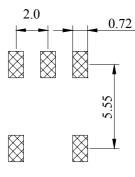
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PROD.	SMD BALUN TRANSFORMER	DWG NO.	BRN6044 Series
NAME		ITEM NO.	

#### I . MECHANICAL DIMENSIONS:



A: 6.20±0.20 m/m B: 4.00±0.20 m/m C: 4.40 max. m/m D: 6.40±0.30 m/m E: 2.00 typ. m/m  $F: 0.60\pm0.05$ m/mG: 0.20±0.10 m/m H: 0.30±0.10 m/m I: 0.70±0.05 m/m J : 0°∼ 8° m/m



( PCB Pattern )

(a)

#### П . MATERIALS:

a. Core: Ferrite RID core

b. Base: Phenolic

c. Wire: Enamelled copper wire (class F)

d. Adhesive: Epoxy resin

e. Terminal: Cu/Ni/Sn (Lead content 100ppm max.)

f. Remark: Ferrite body is exempted with lead content under RoHS regulation

# (b) (e) (e)

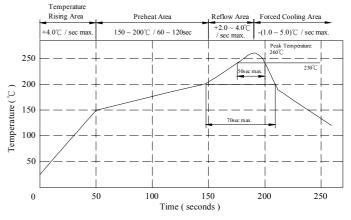
#### Ⅲ . FEATURES:

a. Paired wire coil for high stability.

b. Base Pin terminal treated, Allowing Mounting 'AS IS' ON A PCB.

#### IV . APPLICATIONS:

 a. Double balance mixers , Broad-Band Transformers, Impedance Transformers , ETC. Peak Temp :  $260^{\circ}$ C max. Max time above  $230^{\circ}$ C : 50sec max. Max time above  $200^{\circ}$ C : 70sec max.



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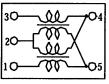
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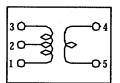
#### V . ELECTRICAL CHARACTERISTICS :

DWG NO.	WINDING TURNS	OPERATING FREQUENCY RANGE	INSERTION LOSS	FIG.
BRN6044-0001S	1	50.0MHz-400.0MHz	10.0dB max.	1
BRN6044-0002S	2	10.0MHz- 1.0GHz	6.0dB max.	1
BRN6044-0003S	3	8.0MHz-800.0MHz	3.5dB max.	1
BRN6044-0004S	4	6.0MHz-600.0MHz	2.5dB max.	1
BRN6044-0005S	5	5.0MHz-500.0MHz	2.0dB max.	1
BRN6044-0006S	2	400.0MHz- 1.3GHz	4.0dB max.	1
BRN6044-0007S	Pri Sec 1x2 1	25.0MHz-450.0MHz	8.0dB max.	2
BRN6044-0008S	Pri Sec 2x2 2	9.0MHz-350.0MHz	3.0dB max.	2
BRN6044-0009S	Pri Sec 3x2 3	3.5MHz-470.0MHz	3.0dB max.	2
BRN6044-0010S	Pri Sec 4x2 4	2.2MHz-400.0MHz	3.0dB max.	. 2
BRN6044-0011S	Pri Sec 5x2 5	1.5MHz-300.0MHz	3.0dB max.	2
BRN6044-0012S	4	6.0MHz-600.0MHz	IN to OUT-1 1.3dB max. IN to OUT-2 11dB~14dB	3
BRN6044-0013S	5	6.0MHz-600.0MHz	IN to OUT-1 0.9dB max. IN to OUT-2 13dB~16dB	3
BRN6044-0014S	6	6.0MHz-600.0MHz	IN to OUT-1 0.8dB max. IN to OUT-2 15dB~17dB	3
BRN6044-0015S		20.0MHz-600.0MHz	IN to OUT-1,2 4.5dB max. OUT-1 to OUT-2 (ISOLATION) 10dB min.	4

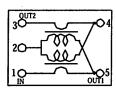
#### VI . SCHEMATIC DIAGRAM:



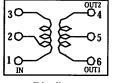
Double balanced mixer Fig. 1



Transformer Fig.2



Directional coupler Fig.3



Distributor Fig.4

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REF: PAGE: 3 PROD. DWG NO. BRN6044 Series SMD BALUN TRANSFORMER NAME ITEM NO. **VII . PACKAGING INFORMATION:** (1) CONFIGURATION COVER TAPE EMBOSSED CARRIER **\*CARRIER TAPE WIDTH: D** 4 m/m P:12 m/m **END START**  $\bigcirc \oplus \oplus \bigcirc$ booood 0000 b00000d 001 001 **LEADER TRAILER** NO COMPONENT NO COMPONENT 160 m/m Min. COMPONENTS 390 m/m Min. USER DIRECTION OF FEED (2) DIMENSIONS Unit:m/m **STYLE** C T В D G N Α 18+0 50<sup>-0</sup> 07 - 16 178  $21\pm0.8$ 13 16 22.4 50<sup>-0</sup> 18<sup>+0</sup> 13 - 16 330  $21 \pm 0.8$ 13 16 22.4 (3) QTY & G.W. PER PACKAGE INNER: REEL **OUTER: CARTON SERIES** Q'TY (PCS) STYLE G.W. (gw) Q'TY (PCS) G.W. (Kg) SIZE (cm) **BRN6044** 300 113 07 - 16 12,000 5.2 39 x 38 x 21.5 BRN6044. 1,000 450 13 - 16 8,000 4.2 40 x 40 x 24

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