

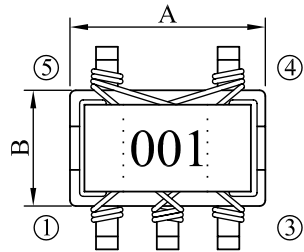
# SPECIFICATION FOR APPROVAL

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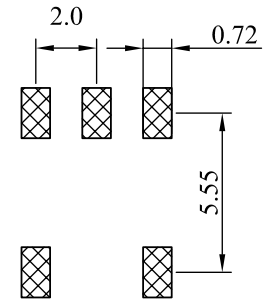
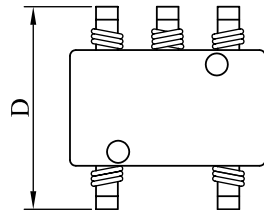
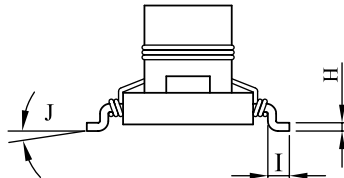
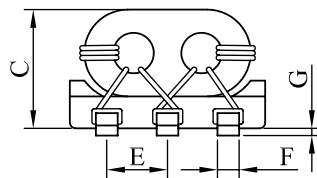
PAGE: 1

PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

## I . MECHANICAL DIMENSIONS :



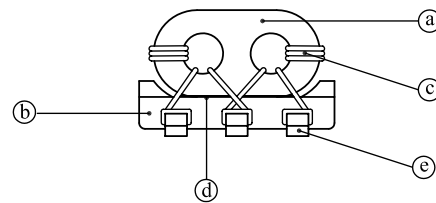
- A : 6.20±0.20 m/m
- B : 4.00±0.20 m/m
- C : 4.40 max. m/m
- D : 6.40±0.30 m/m
- E : 2.00 typ. m/m
- F : 0.60±0.05 m/m
- G : 0.20±0.10 m/m
- H : 0.30±0.10 m/m
- I : 0.70±0.05 m/m
- J : 0° ~ 8° m/m



( PCB Pattern )

## II . MATERIALS :

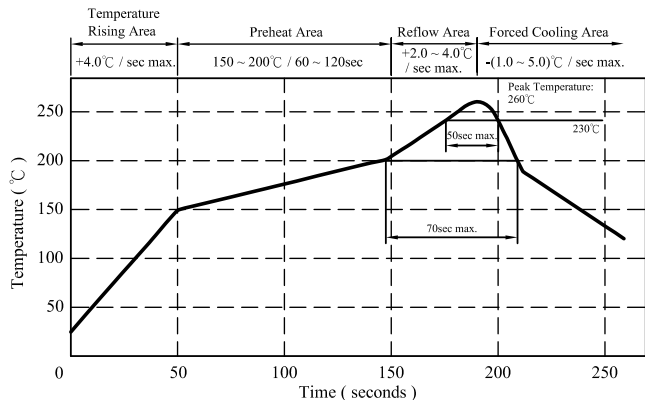
- a. Core : Ferrite RID core
- b. Base : Phenolic
- c. Wire : Enamelled copper wire ( class F )
- d. Adhesive : Epoxy resin
- e. Terminal : Cu/Ni/Sn
- f. Remark : Products comply with RoHS' requirements



Peak Temp : 260°C max.  
 Max time above 230°C : 50sec max.  
 Max time above 200°C : 70sec max.

## III . APPLICATIONS :

- a. Double balance mixers , Broad-Band Transformers, Impedance Transformers , ETC.



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# SPECIFICATION FOR APPROVAL

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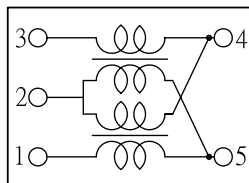
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

## IV . ELECTRICAL CHARACTERISTICS :

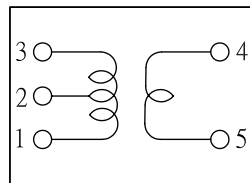
DWG No.	Winding turns	Operating Frequency range	Insertion loss	FIG.
SC60440001L□-□□□	1	50.0MHz-400.0MHz	10.0dB max.	1
SC60440002L□-□□□	2	10.0MHz- 1.0GHz	6.0dB max.	1
SC60440003L□-□□□	3	8.0MHz-800.0MHz	3.5dB max.	1
SC60440004L□-□□□	4	6.0MHz-600.0MHz	2.5dB max.	1
SC60440005L□-□□□	5	5.0MHz-500.0MHz	2.0dB max.	1
SC60440006L□-□□□	2	400.0MHz- 1.3GHz	4.0dB max.	1
SC60440007L□-□□□	Pri 1x2 Sec 1	25.0MHz-450.0MHz	8.0dB max.	2
SC60440008L□-□□□	Pri 2x2 Sec 2	9.0MHz-350.0MHz	3.0dB max.	2
SC60440009L□-□□□	Pri 3x2 Sec 3	3.5MHz-470.0MHz	3.0dB max.	2
SC60440010L□-□□□	Pri 4x2 Sec 4	2.2MHz-400.0MHz	3.0dB max.	2
SC60440011L□-□□□	Pri 5x2 Sec 5	1.5MHz-300.0MHz	3.0dB max.	2
SC60440012L□-□□□	4	6.0MHz-600.0MHz	IN to OUT-1 1.3dB max. IN to OUT-2 11dB~14dB	3
SC60440013L□-□□□	5	6.0MHz-600.0MHz	IN to OUT-1 0.9dB max. IN to OUT-2 13dB~16dB	3
SC60440014L□-□□□	6	6.0MHz-600.0MHz	IN to OUT-1 0.8dB max. IN to OUT-2 15dB~17dB	3
SC60440015L□-□□□		20.0MHz-600.0MHz	IN to OUT-1,2 4.5dB max. OUT-1 to OUT-2 (ISOLATION) 10dB min.	4

- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel  
 2). "□□□":Reference code

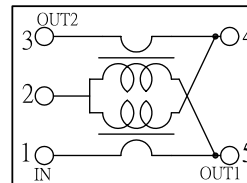
## V . SCHEMATIC DIAGRAM :



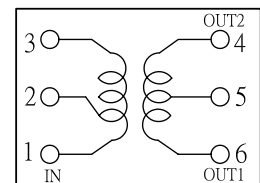
Double balanced mixer  
Fig.1



Transformer  
Fig.2

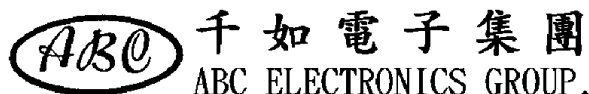


Directional coupler  
Fig.3



Distributor  
Fig.4

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# SPECIFICATION FOR APPROVAL

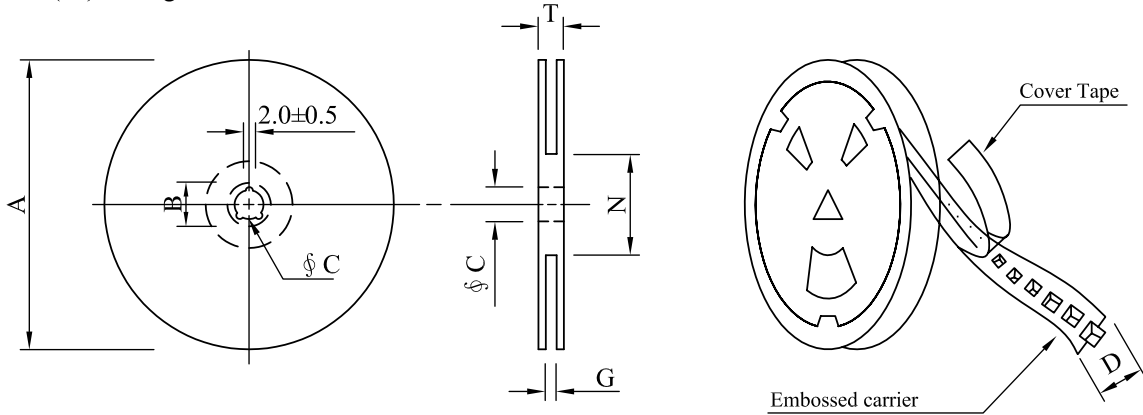
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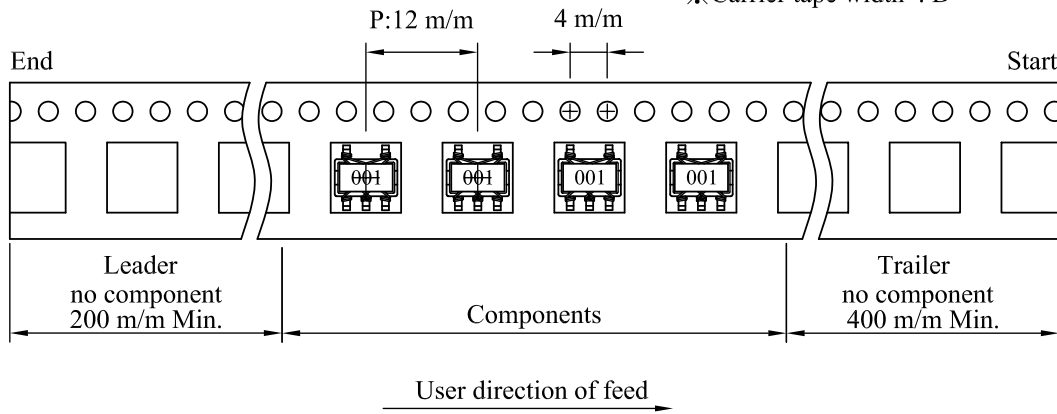
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

## VI . PACKAGING INFORMATION :

### ( 1 ) Configuration



※Carrier tape width : D



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 <sup>+0</sup>	50 <sup>-0</sup>	22.4

### ( 3 ) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SC6044	1,000	450	13 - 16	6,000	3.5	40 x 40 x 24

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**千如電子集團**  
 ABC ELECTRONICS GROUP.

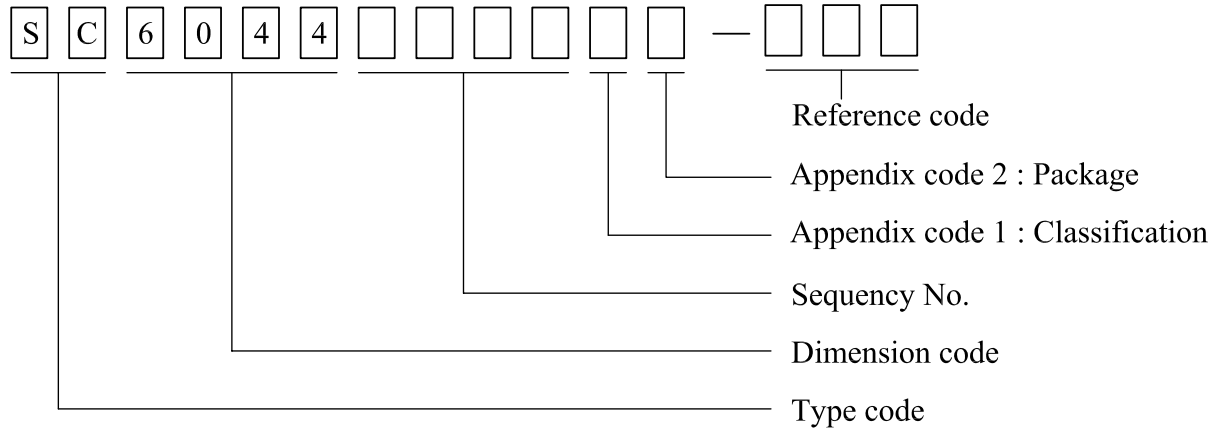
# SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

**VII . DWGING NUMBER EXPRESSION :**



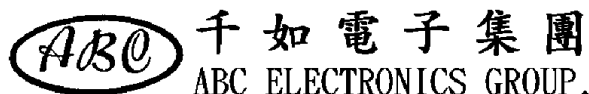
**Appendix code 1 : Product Classification**

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

**Appendix code 2 : Package Information**

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R ( Reel package )	1000 pcs	

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PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

VIII . UL CARD :

OBMW2 September 8, 2000  
Magnet Wire-Component  
**JUNG SHING WIRE CO LTD** E174837  
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN  
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
AIW	---	Polyamideimide		---	MW81-C	220
CFUEWB	---	Polyurethane		---	MW75C	130
EIAIW	---	Polyesterimide		Polyamideimide	MW35C	200
EILOCKY	---	Polyesterimide		Polyamide	---	180
EILOCKW	---	Polyesterimide		Modified Epoxy	---	200
EIW	---	Polyesterimide		---	---	220
EIW-2	---	Polyesterimide		---	MW74-C	200
FL.EILOCKY	---	Modified Polyester		Polyamide	---	155
LSEFW	---	Polyurethane		---	MW79-C	155
LSUEW	---	Polyurethane		---	---	130
PEW	---	Polyester		---	---	155
PEY	---	Polyester		Nylon	MW24-C	155
SF.FLW	---	Modified Polyester		---	MW26C	155
SF.EIW	---	Polyesterimide		---	MW77C	180
SF.BY@	---	Modified Polyester		Nylon	MW27-C	155
SF.FLY@	---	Modified Polyester		Nylon	MW27-C	155
SF.BLOCKBS	---	Modified Polyester		Modified Polyamide	---	155
SF.EILOCKY#	---	Polyesterimide		Polyamide	---	180
SF.EILOCKBS	---	Polyesterimide		Modified Polyamide	---	180
SF.BW@	---	Modified Polyester		---	MW26C	155
SFFW	---	Polyurethane		---	MW79	155

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A not-for-profit organization dedicated to public safety and committed to quality service

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
SFFY	---	Polyurethane		Polyamide	MW80C	155
UEW-1	---	Polyurethane		---	MW2-C	105
UEW-2	---	Polyurethane		---	---	130
UEW-4	---	Polyurethane		---	MW75C	130
UEY	---	Polyurethane		Nylon	MW28-C	130
UEY-2	---	Polyurethane		Polyamide	MW28-C	130

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OBMW2E174837  
September 8, 2000

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZI.  
LZ - Signifies magned wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.  
Marking: Company name or trademarks JSW or 榮星電線, material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions  
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

SUMITOMO CHEMICAL CO LTD										E54705 (M)		
5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN												
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Mech with Imp	w/o Imp	H W I	H A I	H V R	D 4 5	C T I	
Liquid crystal polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets, (Contd)												
E4008 , E400X	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—	
		0.75	94V-0	130	130	130	3	4	—	—	—	
		1.5	94V-0	130	130	130	2	4	—	—	—	
		3.0	94V-0	130	130	130	1	4	0	5	4	
E4008	NC , WT , BK	0.30	94V-0	130	130	130	—	—	—	—	—	
		0.75	94V-0	220	180	220	3	4	—	—	—	
		1.5	94V-0	220	200	240	2	4	—	—	—	
		3.0	94V-0	220	200	240	1	4	0	5	4	
E4010	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—	
		0.75	94V-0	220	180	220	3	4	—	—	—	
		1.5	94V-0	220	200	240	2	4	—	—	—	
		3.0	94V-0	220	200	240	1	4	0	5	4	
E400(Y)L , E4008L	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—	
		0.75	94V-0	130	130	130	3	4	—	—	—	
		1.5	94V-0	130	130	130	2	4	—	—	—	
		3.0	94V-0	130	130	130	1	4	0	5	4	
E4810	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—	
		0.75	94V-0	130	130	130	0	4	—	—	—	
		1.5	94V-0	130	130	130	0	4	—	—	—	
		3.0	94V-0	130	130	130	1	4	0	5	4	

(X) Denotes any number 1 thru 9.  
(Y) Denotes any number 1 thru 7.

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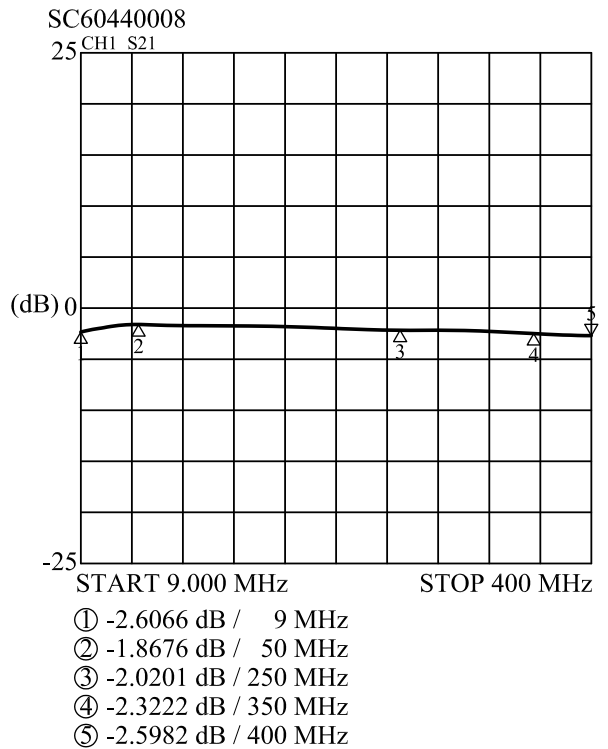
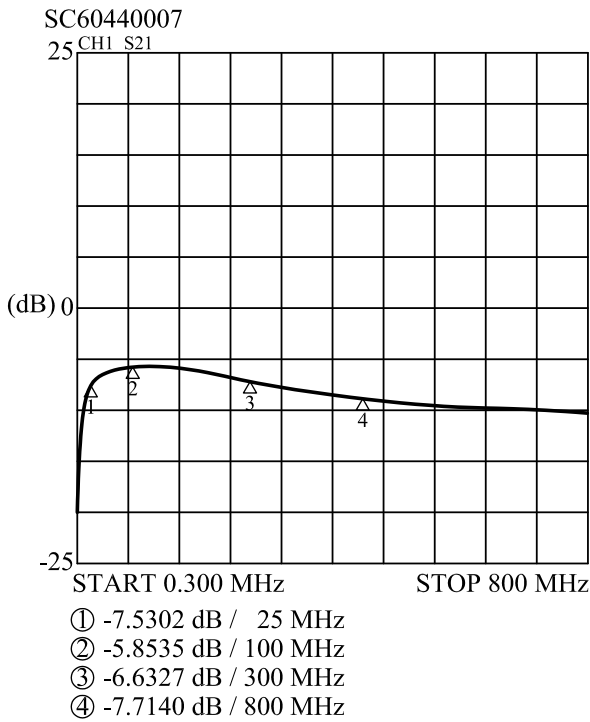
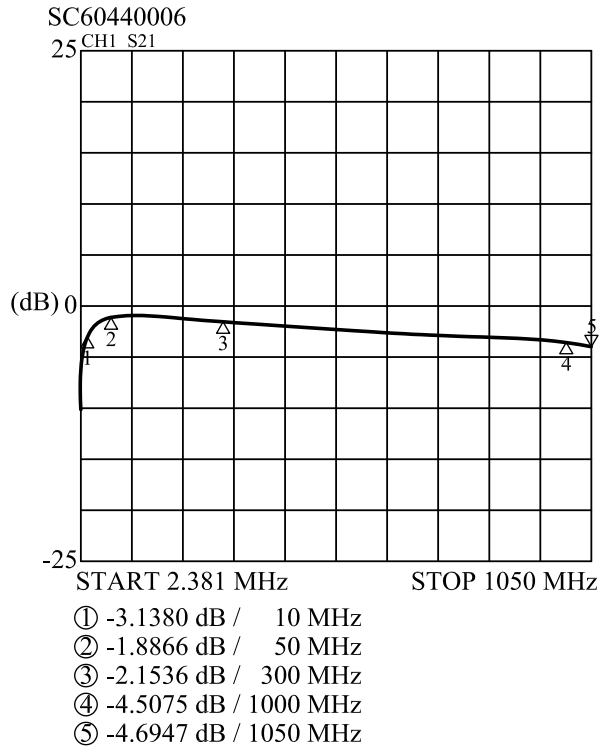
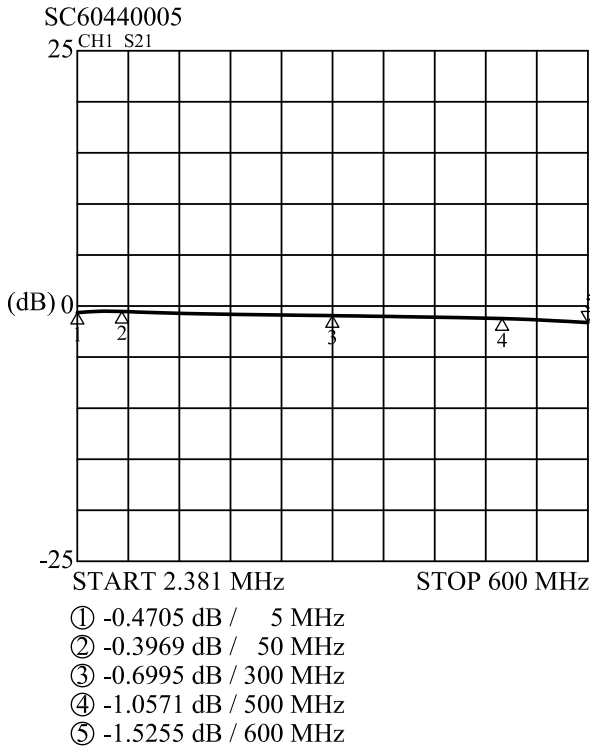


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PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
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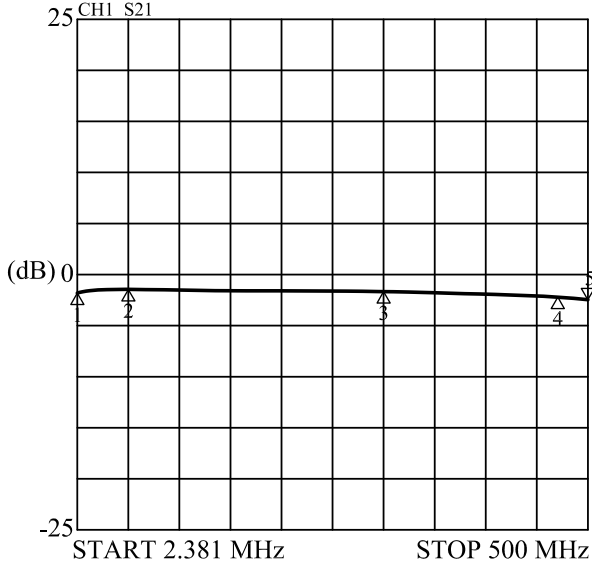
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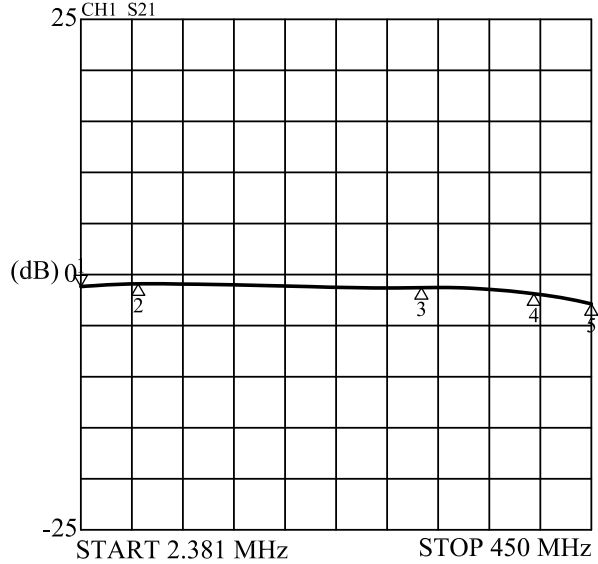
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

SC60440009



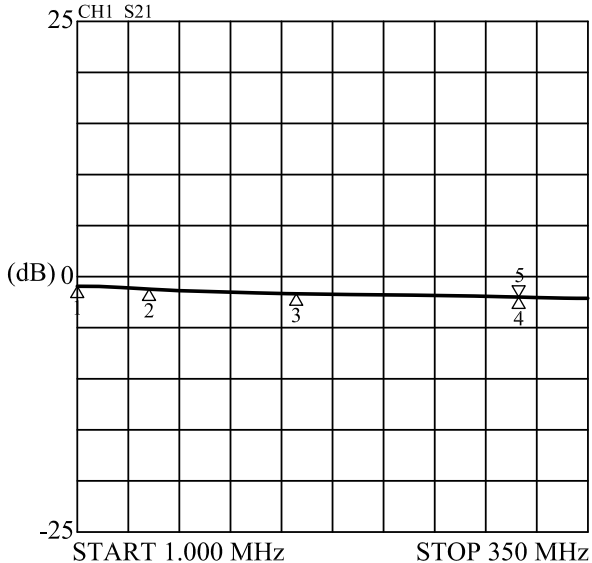
- ① -1.9681 dB / 3.5 MHz
- ② -1.3742 dB / 50 MHz
- ③ -1.6774 dB / 300 MHz
- ④ -2.1016 dB / 470 MHz
- ⑤ -2.3843 dB / 500 MHz

SC60440010



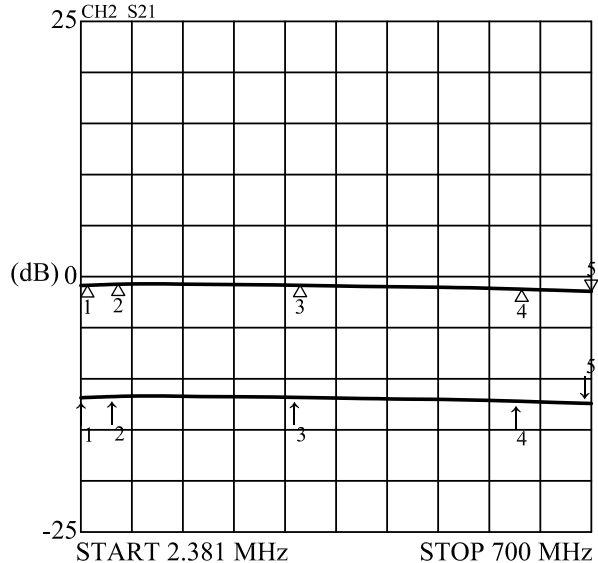
- ① -0.8878 dB / 2.381 MHz
- ② -0.7163 dB / 50 MHz
- ③ -1.2644 dB / 300 MHz
- ④ -1.9968 dB / 400 MHz
- ⑤ -3.0278 dB / 450 MHz

SC60440011



- ① -0.5992 dB / 1.5 MHz
- ② -0.7765 dB / 50 MHz
- ③ -1.4662 dB / 150 MHz
- ④ -2.3604 dB / 300 MHz
- ⑤ -2.3604 dB / 300 MHz

SC60440012



- "△" : IN-OUT 1      "↑" : IN-OUT 2
- ① -0.9926 dB / 6 MHz      ① -12.378 dB / 6 MHz
  - ② -0.7059 dB / 50 MHz      ② -12.303 dB / 50 MHz
  - ③ -0.7940 dB / 300 MHz      ③ -12.505 dB / 300 MHz
  - ④ -1.1147 dB / 600 MHz      ④ -12.907 dB / 600 MHz
  - ⑤ -1.2524 dB / 700 MHz      ⑤ -13.049 dB / 700 MHz

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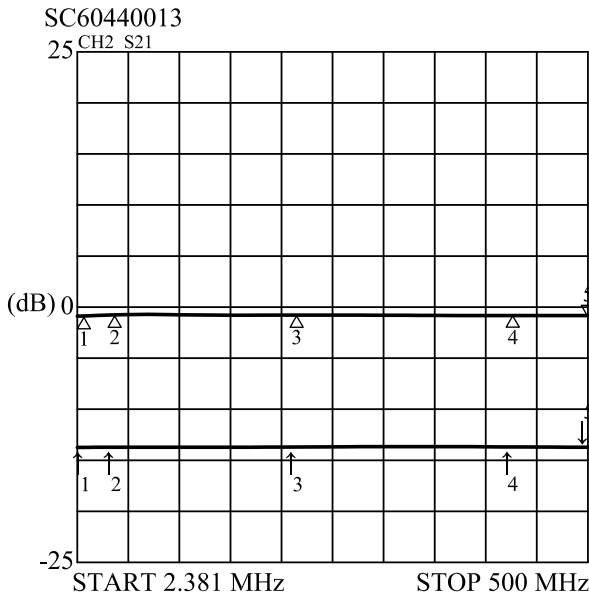


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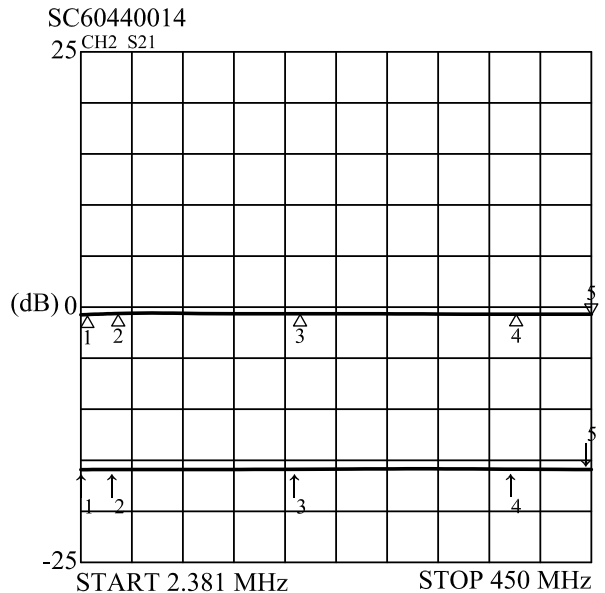
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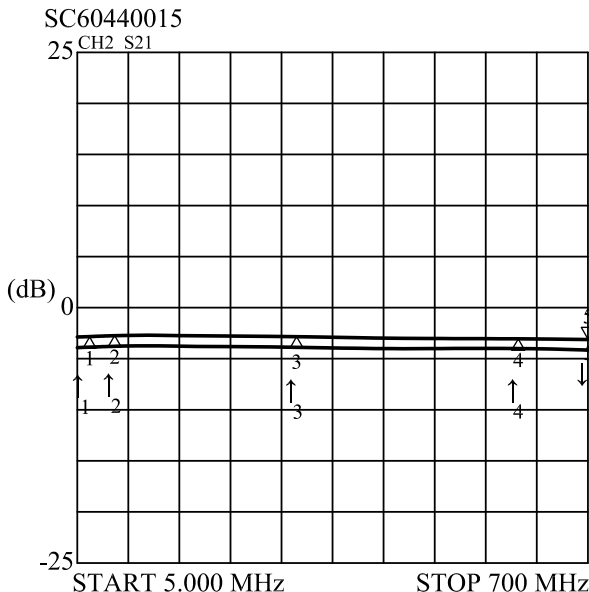
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	



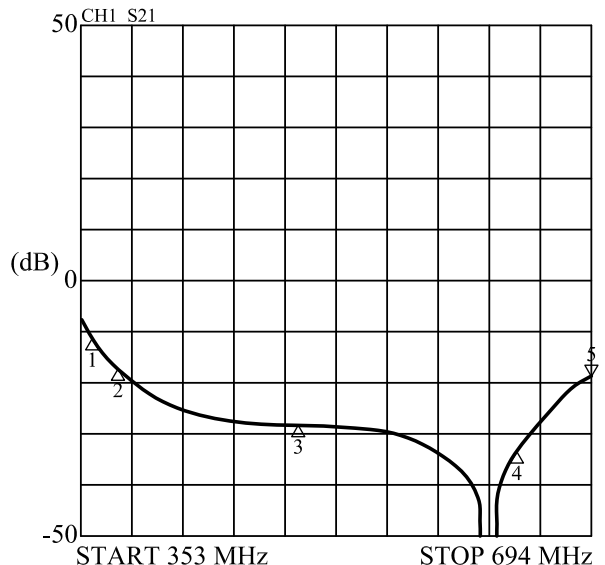
- "△" : IN-OUT 1      "↑" : IN-OUT 2
- ① -0.6377 dB / 6 MHz    ① -14.222 dB / 6 MHz
  - ② -0.4683 dB / 50 MHz   ② -14.177 dB / 50 MHz
  - ③ -0.5063 dB / 300 MHz   ③ -14.254 dB / 300 MHz
  - ④ -0.6722 dB / 600 MHz   ④ -14.309 dB / 600 MHz
  - ⑤ -0.7370 dB / 700 MHz   ⑤ -14.300 dB / 700 MHz



- "△" : IN-OUT 1      "↑" : IN-OUT 2
- ① -0.4321 dB / 6 MHz    ① -15.765 dB / 6 MHz
  - ② -0.3222 dB / 50 MHz   ② -15.736 dB / 50 MHz
  - ③ -0.3882 dB / 300 MHz   ③ -15.829 dB / 300 MHz
  - ④ -0.5890 dB / 600 MHz   ④ -15.942 dB / 600 MHz
  - ⑤ -0.6721 dB / 700 MHz   ⑤ -15.962 dB / 700 MHz



- "△" : IN-OUT 1      "↑" : IN-OUT 2
- ① -3.3367 dB / 20 MHz    ① -3.6766 dB / 20 MHz
  - ② -3.3328 dB / 50 MHz   ② -3.6122 dB / 50 MHz
  - ③ -3.6748 dB / 300 MHz   ③ -3.9403 dB / 300 MHz
  - ④ -4.0316 dB / 600 MHz   ④ -4.1138 dB / 600 MHz
  - ⑤ -4.0401 dB / 700 MHz   ⑤ -3.8037 dB / 700 MHz



- "△" : OUT 1-OUT 2
- ① -12.229 dB / 20 MHz
  - ② -17.753 dB / 50 MHz
  - ③ -27.348 dB / 300 MHz
  - ④ -33.705 dB / 600 MHz
  - ⑤ -18.530 dB / 700 MHz

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