

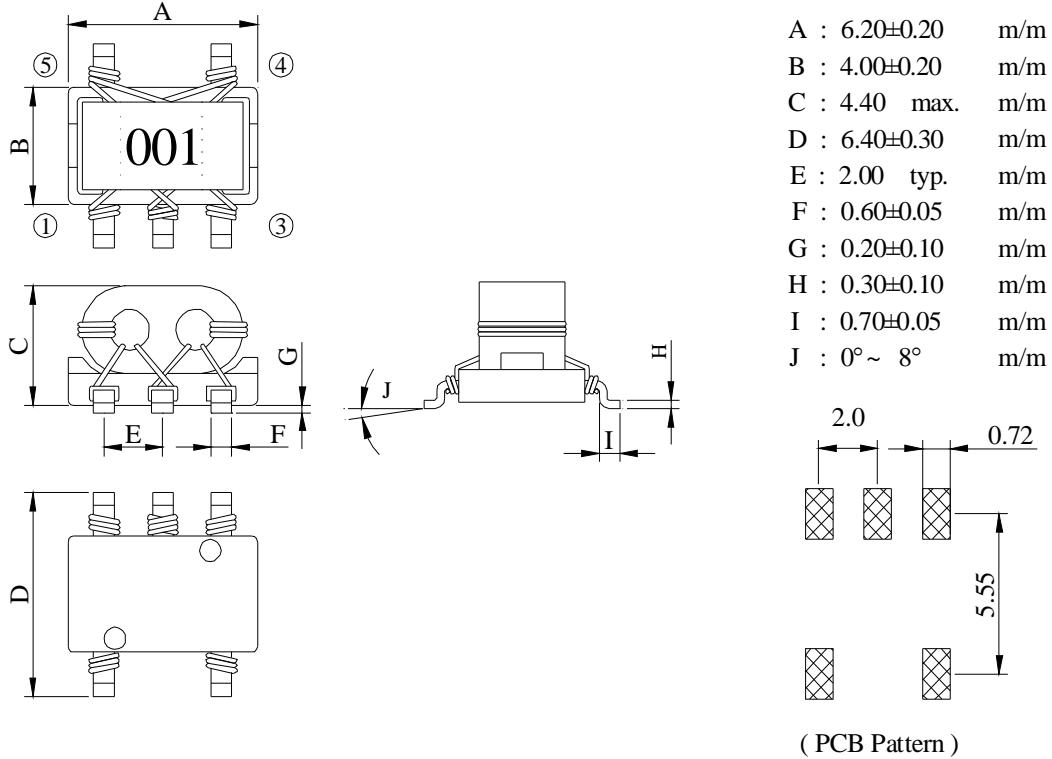
# SPECIFICATION FOR APPROVAL

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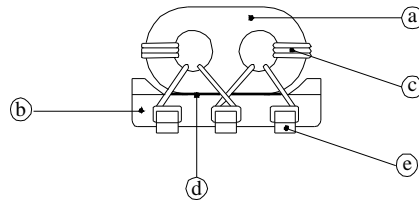
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	

## I . MECHANICAL DIMENSIONS :

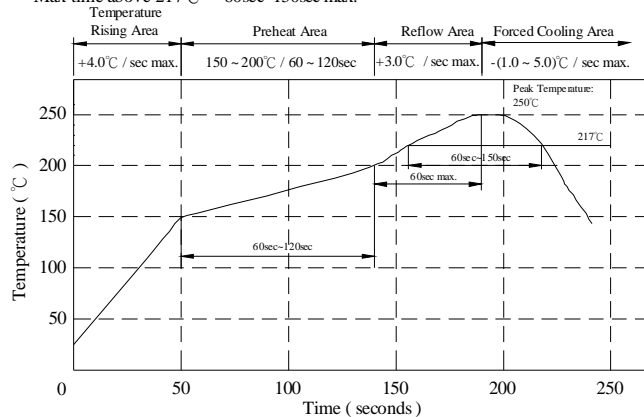


## II . MATERIALS :

- 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 : 250°C max.  
 Max. Peak Temp - 5°C : 30sec max.  
 Max time above 217°C : 60sec~150sec max.



## III . APPLICATIONS :

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

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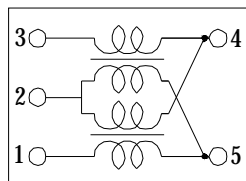
## IV . ELECTRICAL CHARACTERISTICS :

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

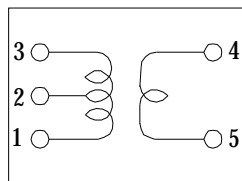
1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel

2). "□□□ " : Reference code

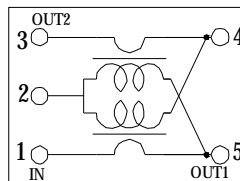
## V . SCHEMATIC DIAGRAM :



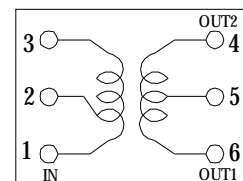
Double balanced mixer  
Fig.1



Transformer  
Fig.2



Directional coupler  
Fig.3



Distributor  
Fig.4

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# SPECIFICATION FOR APPROVAL

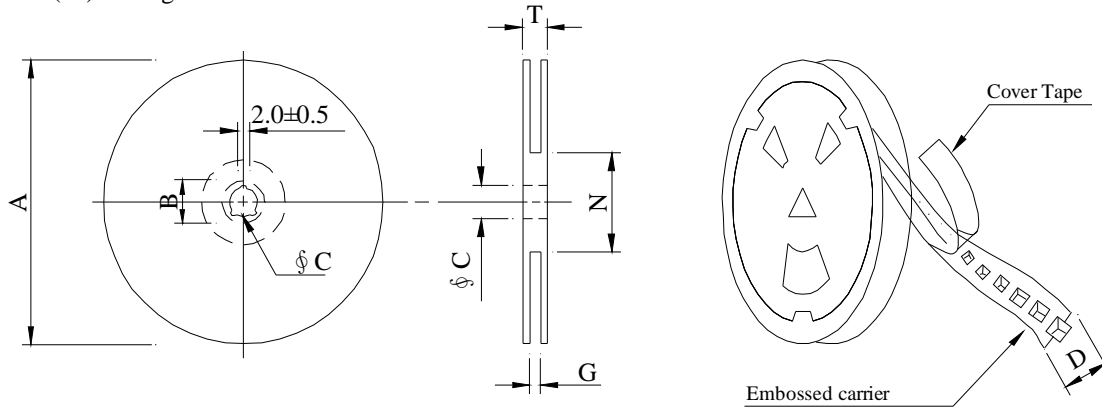
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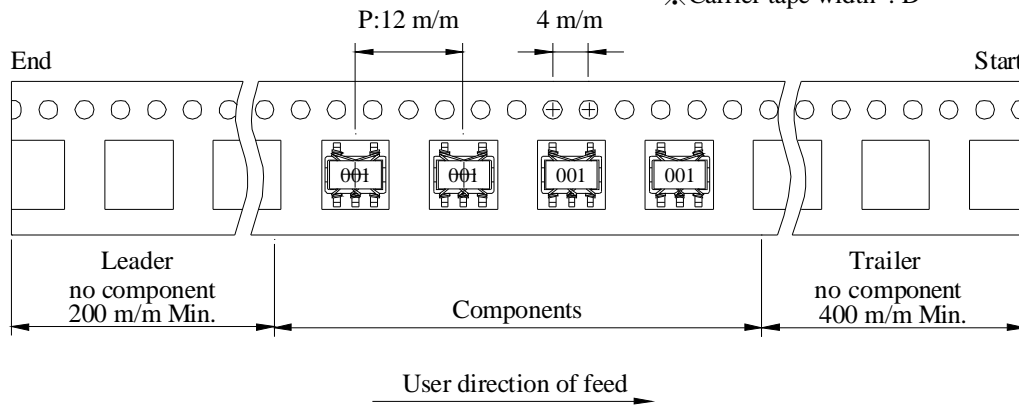
PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
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**VI . PACKAGING INFORMATION :**

( 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	38 x 37 x 22

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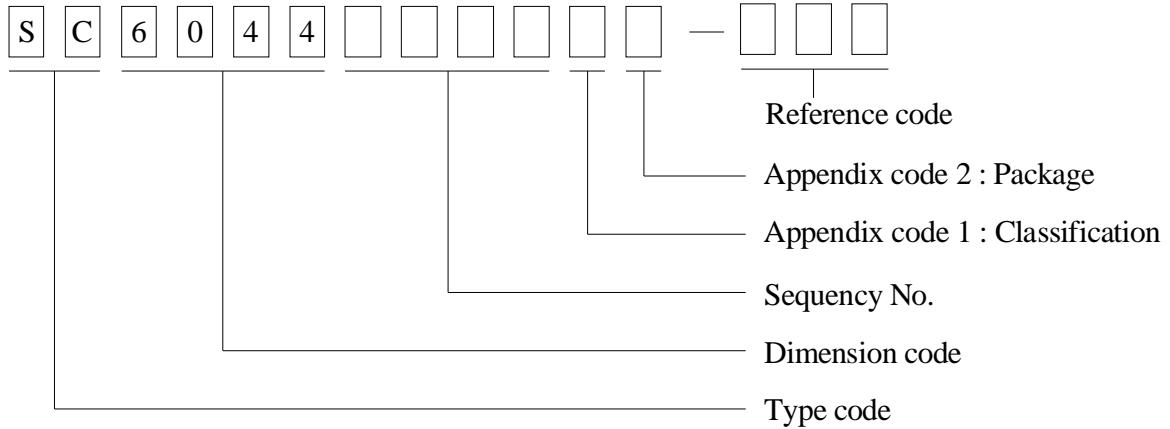
# SPECIFICATION FOR APPROVAL

REF :

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**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□-□□□
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		SUMITOMO CHEMICAL CO LTD						E54705 (M)				
		5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN										
Mil Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I	
					with Imp	Mech w/o Imp						
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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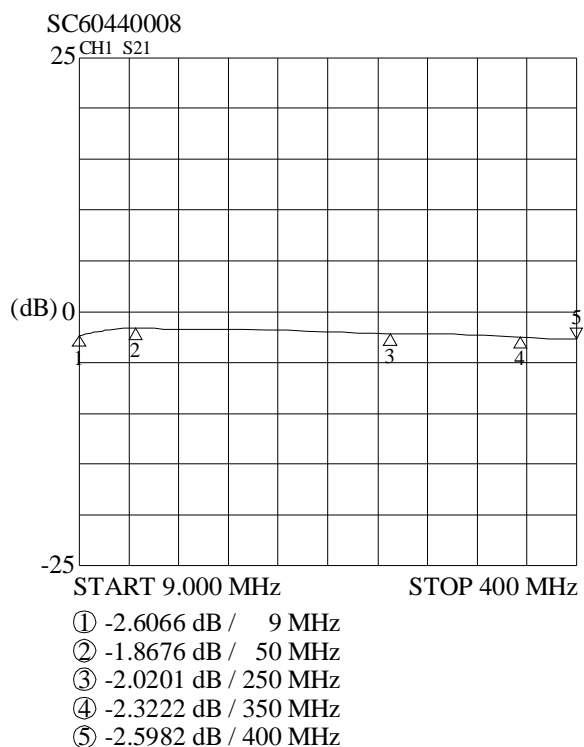
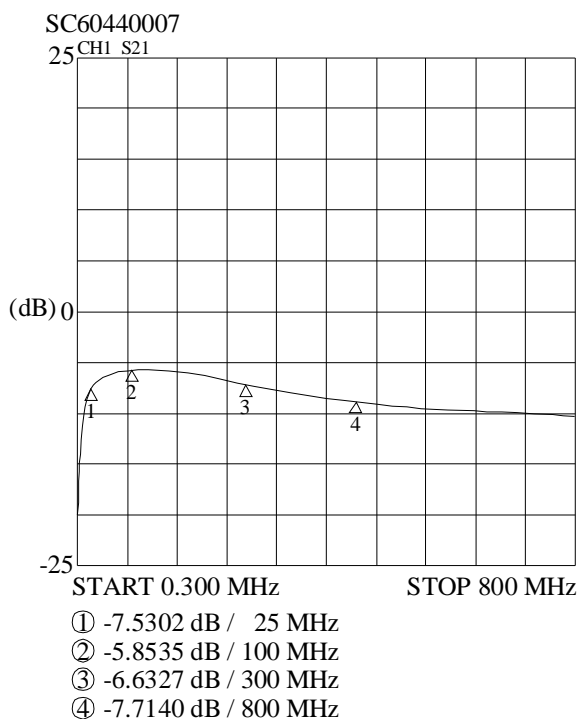
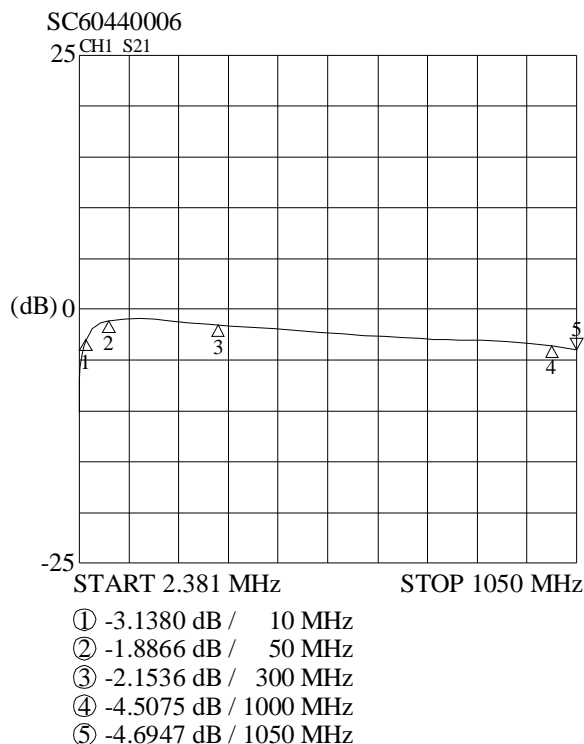
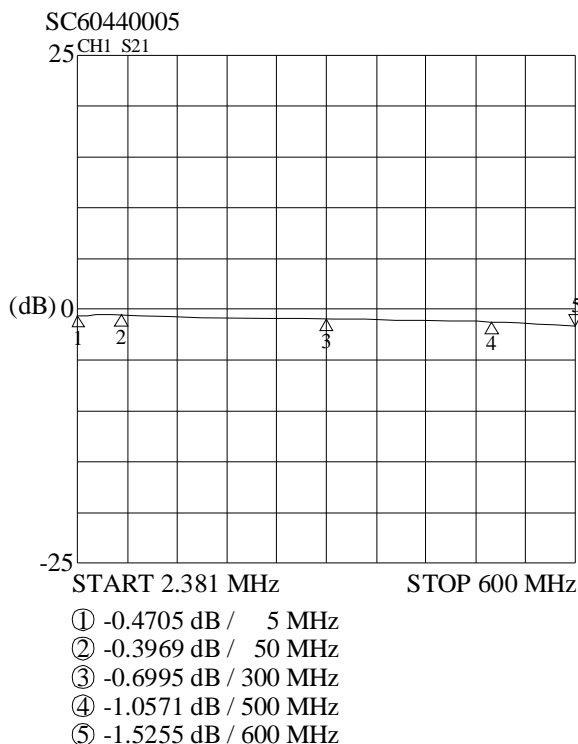


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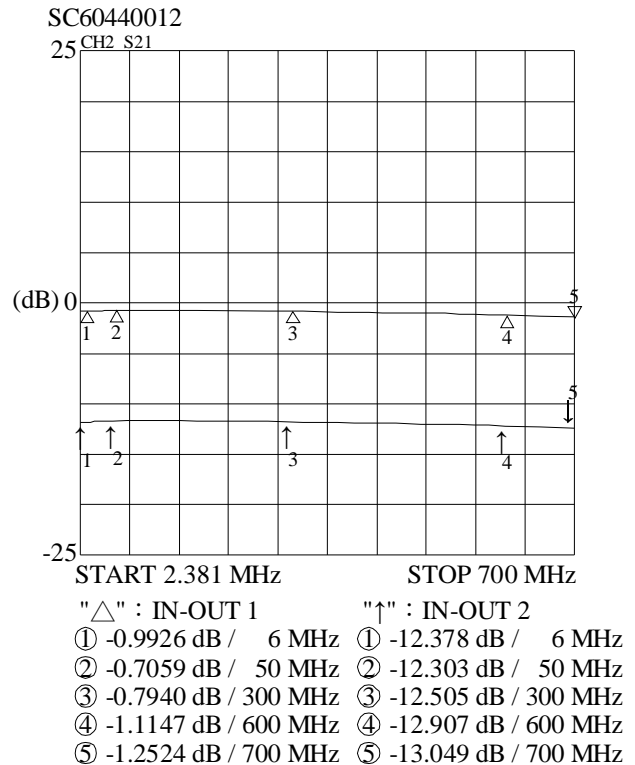
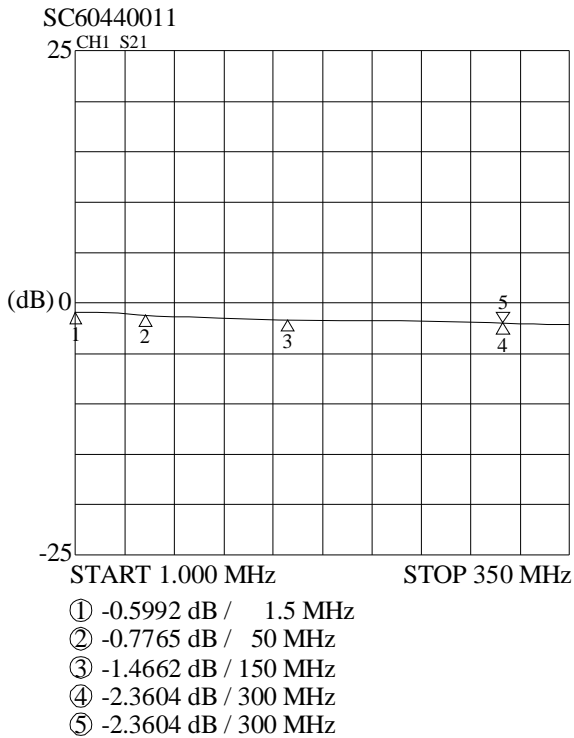
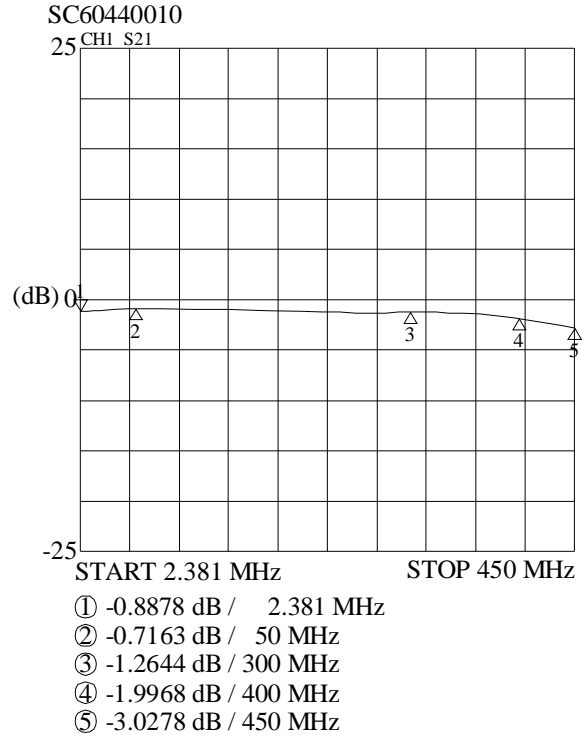
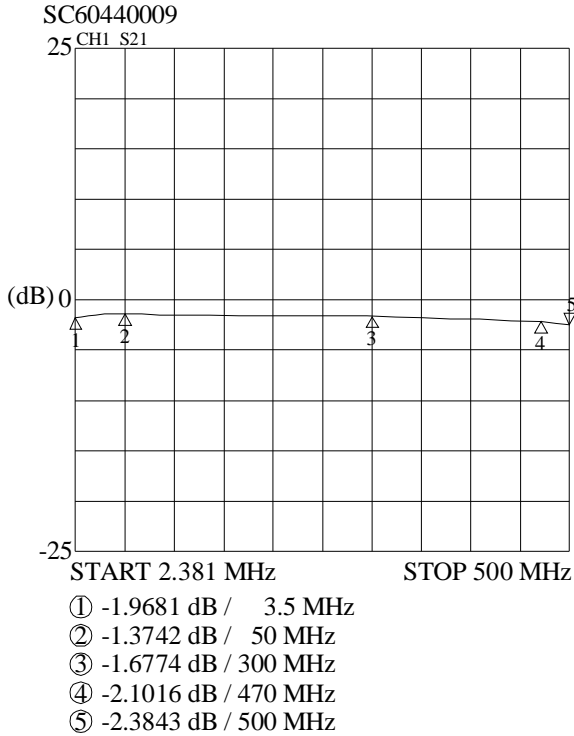
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PROD. NAME	SMD BALUN TRANSFORMER	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	



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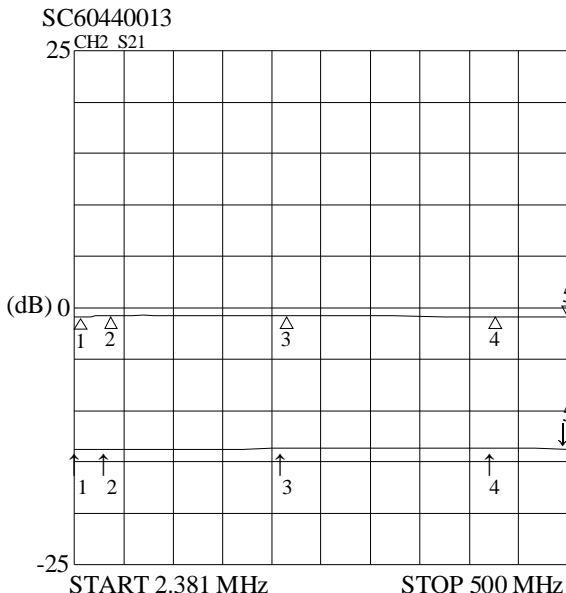


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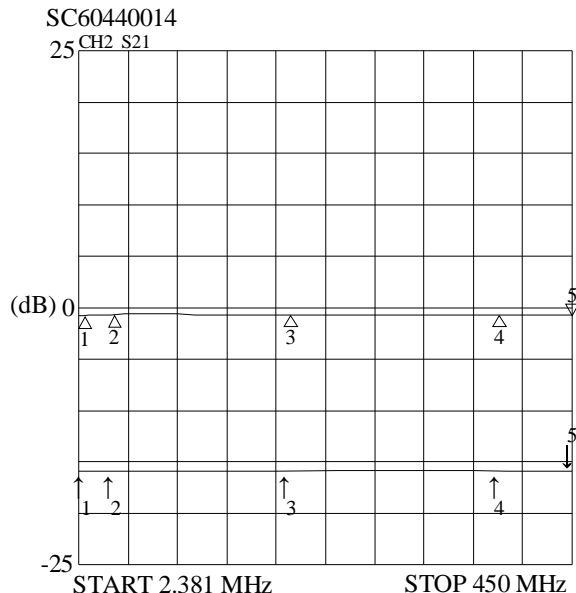
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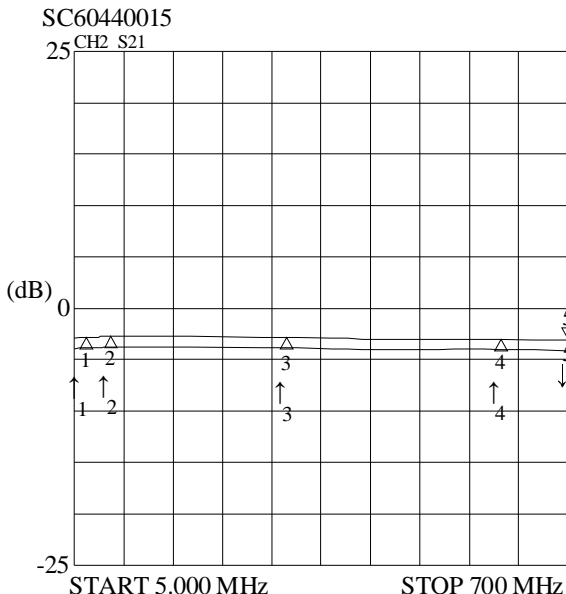
PROD. NAME	<b>SMD BALUN TRANSFORMER</b>	ABC'S DWG NO.	SC6044□□□□L□-□□□
		ABC'S ITEM NO.	



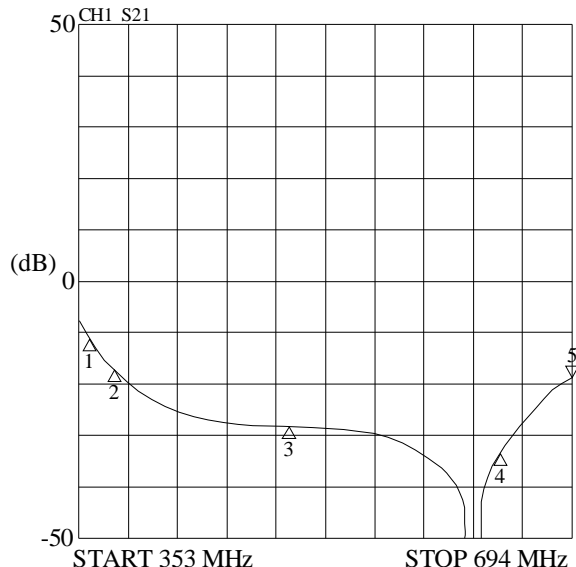
- |                        |                        |
|------------------------|------------------------|
| "△" : IN-OUT 1         | "↑" : IN-OUT 2         |
| ① -0.6377 dB / 6 MHz   | ① -14.222 dB / 6 MHz   |
| ② -0.4683 dB / 50 MHz  | ② -14.177 dB / 50 MHz  |
| ③ -0.5063 dB / 300 MHz | ③ -14.254 dB / 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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