

This parts should not contain any substances which are specified in RoHS STANDARD.




# APPROVAL SHEET

CUSTOMER : \_\_\_\_\_

ITEM : SMD POWER INDUCTOR \_\_\_\_\_

SAMWHA P/No. : SFCB1280T-331 \_\_\_\_\_

CUSTOMER P/No. : \_\_\_\_\_

DESIGNED	CHECKED	APPROVED
		
2014.11.24	2014.11.24	2014.11.24



**SAMWHA TECOM CO.,LTD.**  
**PT. SAMWHA INDONESIA**

## SAMWHA TECOM CO.,LTD

HEAD OFFICE  
198-27 GEUNSAM-RI, BAEKAM-MYUN, YONGIN-CITY, KYUNGGI-DO, KOREA  
FACTORY  
5-12 BANGYE-RI, MUNMAK-EUP, WONJU-SI, KANGWON-DO, KOREA  
TEL : (031)334-9631 FAX : (031)332-8122

## INDONESIA FACTORY

CIKANANGARA 06/RW 02, CIKUMPAY, CAMPAKA, PURWAKARTA, INDONESIA.  
TEL : 0264)20-0837 FAX : 0264)20-1538

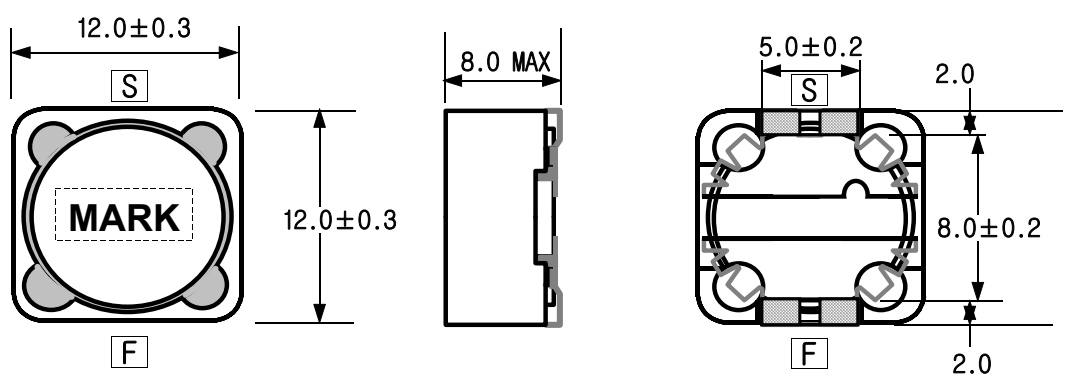
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
------------	--------------------	------------	-------------	-------------

RECORD OF REVISIONS				
REV NO.	REV DATE	REVISION CONTENTS	REASON OF REV.	MARKING METHOD
0	2014.11.24	ISSUE		

QUALITY & DEVELOPMENT TEAM				尺圖 SCALE	SMD POWER INDUCTOR
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/ NTS	
		-		DIM. mm	
				SFCB1280T-331	1 / 6

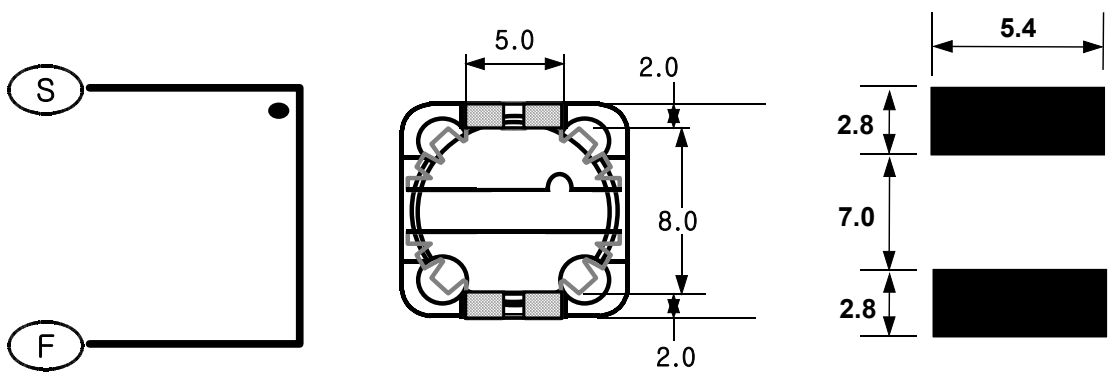
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
------------	--------------------	------------	-------------	-------------

1. DIMENSION (UNIT : mm)



ex) Marking Spec  
\* 330uH : 331

2.Schematic & PCB Land Pattern ( Recommendation )



QUALITY & DEVELOPMENT TEAM				尺圖	SCALE	SMD POWER INDUCTOR
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/	NTS	
		-		DIM.	mm	
					SFCB1280T-331	
					2 / 6	

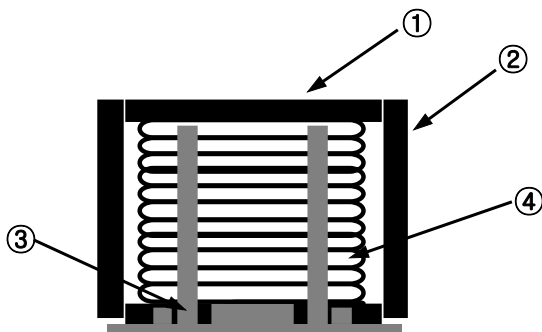
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
------------	--------------------	------------	-------------	-------------

### 3. ELECTRICAL PERFORMANCE

Part No.	INDUCTANCE ( $\mu\text{H} \pm 20\%$ )	DC RESISTANCE ( $\Omega$ MAX)	SATURATION RATED CURRENT (A MAX)	MARKING
SFCB1280T-331	330	0.320	1.2	331

- Measured at 100KHz, 0.25Vrms
- Measured with HP-4284A (Inductance) Hioki 3220m $\Omega$  Hi-tester (DCR) or Equiv.
- Operating temperature range -40 $^{\circ}\text{C}$  to +105 $^{\circ}\text{C}$  (Including self-temperature rise)
- Saturation Rated Current  
\*This indicates the value of current when the inductance becomes 20% lower than initial value

### 4. INTERNAL CONSTRUCTION & MATERIAL LIST

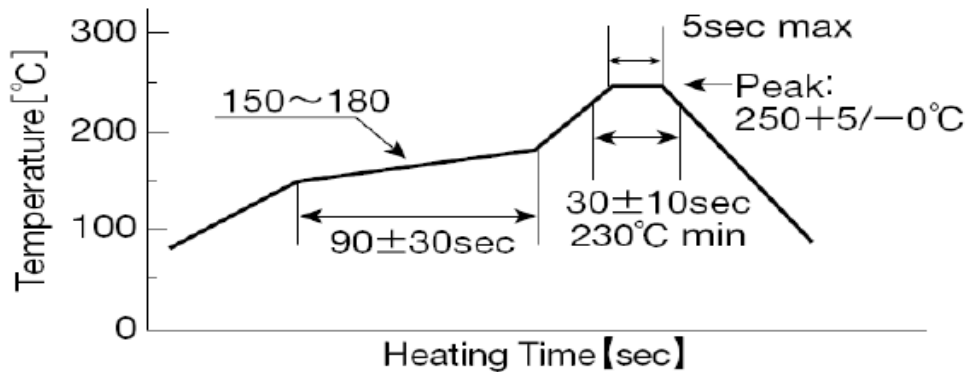


NO.	PART NAME	MATEARIAL
1	DR CORE	FERRITE (Ni+Zn)
2	RI CORE	FERRITE (Ni+Zn)
3	BASE	Phosphorus Bronze
4	WIRE	Polyurethane Enamelled Copper Wire
5	EPOXY	Epoxy Resin

QUALITY & DEVELOPMENT TEAM				尺圖 SCALE	SMD POWER INDUCTOR
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/ NTS	
				DIM. mm	
		-			SFCB1280T-331
					3 / 6

No.	Item	Test Condition	Specification	Test Equipment
1	High Temperature	90℃, 96 Hours.	Inductance change within ±10% No Crack & Broken	KATO Inc. SSE-44CI-A
2	Low Temperature	-40℃, 96 Hours.	Inductance change within ±10% No Crack & Broken	KATO Inc. SSE-44CI-A
3	Humidity	40±2℃ 90% 96 Hours.	Inductance change within ±10% No Crack & Broken	KATO Inc. SSE-44CI-A
4	Thermal shock	* High Temp & Time 90±2℃ 30 Minutes * Within 5 Minutes * Low Temp & Time -40±2℃ 30 Minutes * Cycle : 10cycle	Inductance change within ±10% No Crack & Broken	KATO Inc. SSE-44CI-A & TABAI Platinous Lucifer PL-1G
5	Vibration	vibration for 2hours in each of three orientations at sweep vibration 10 to 55 to 10Hz with 1.5mm P-P amplitude	Inductance change within ±10%	DSA-VT1
6	Resistance to soldering heat	Soler temperature : 260 ±5℃ Duration : 10 ±2sec	No mechanical defect Inductance change within ±10%	OT-208071

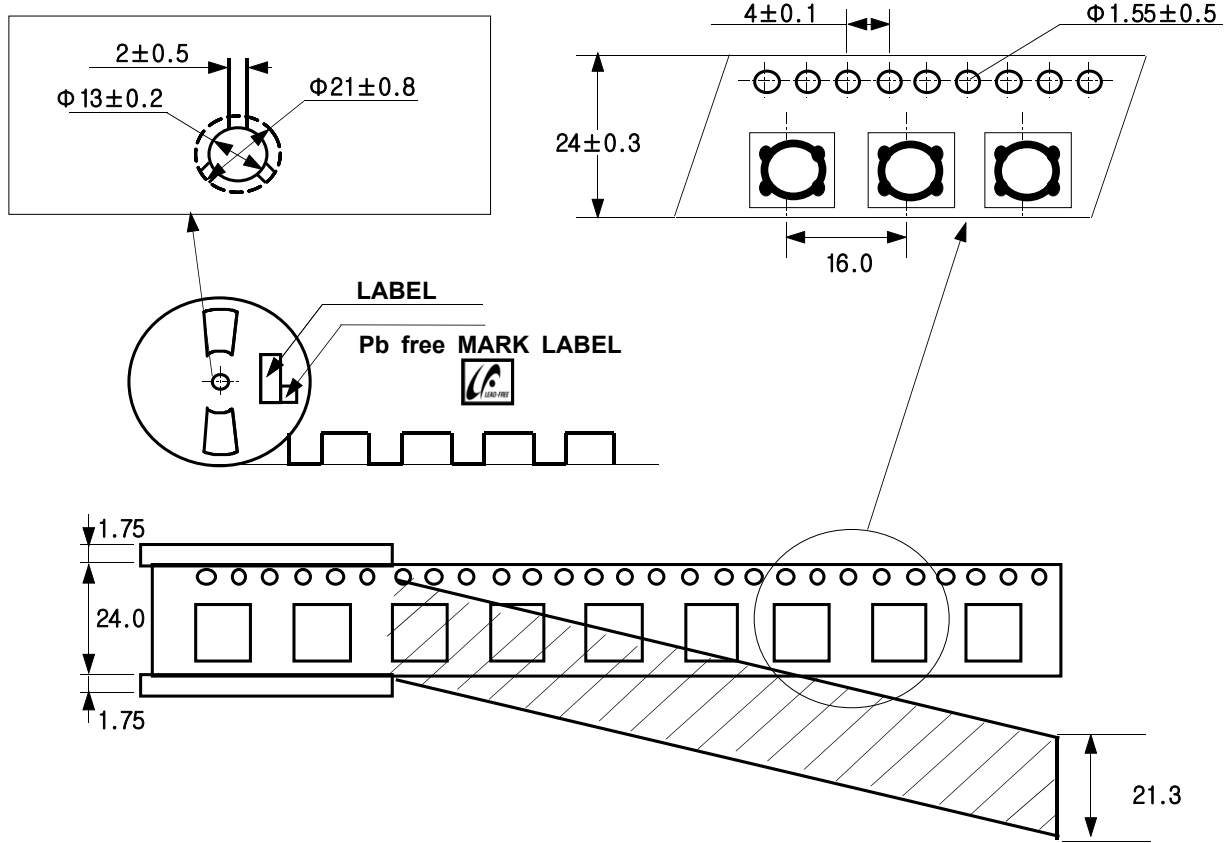
### 6. Reflow Condition (Recommendation)



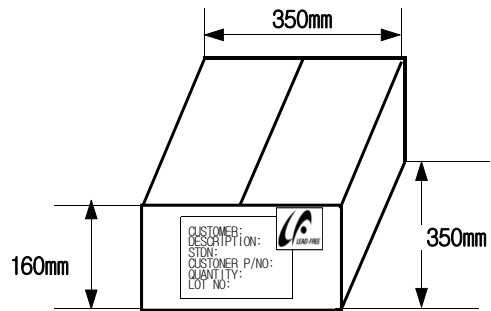
QUALITY & DEVELOPMENT TEAM				尺圖 SCALE	SMD POWER INDUCTOR
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/ NTS	
		-		DIM. mm	
				<b>SFCB1280T-331</b>	4 / 6

改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
------------	--------------------	------------	-------------	-------------

7. PACKING SPEC.



TAPE PITCH	16mm
EMBOSE TAPE	24mm
REEL	Φ 330 ±2mm
QUANTITY	500pcs
REEL TAPE MARGIN	START : 200mm MIN FINISH : 200mm MIN
COVER TAPE	21.3mm




1BOX : 500PCS ×3REEL= 1,500PCS

QUALITY & DEVELOPMENT TEAM				尺圖	SCALE	SMD POWER INDUCTOR
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/	NTS	
		-		DIM.	mm	
					SFCB1280T-331	5 / 6

改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
------------	--------------------	------------	-------------	-------------

## 8. UL YELLOW CARD


**ONLINE CERTIFICATIONS DIRECTORY**

---

**OBMW2.E228267**  
**Magnet Wire - Component**

[Page Bottom](#)

---

**Magnet Wire - Component**

[See General Information for Magnet Wire - Component](#)

**P T EWINDO**  
JL CIMUNCANG NO 68  
BANDUNG, JAWA BARAT INDONESIA 40125 INDONESIA

E228267

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class
		BC	OC		
UEW	(1)	Polyurethane	—	MW79	155
				MW75#	130
UEW-1	(1)	Polyurethane	—	MW79	155
				MW75#	130

(1)-Marked designations are the same as the material designations.

# - This wire may perform better than the rating reflects and hence may not be suitable for insulation system aging programs.

Marking: Company name, material designation or marked designation on package or reel, and Recognized Component Mark.  
Last Updated on 2007-03-08

[Questions?](#)

[Print this page](#)

[Notice of Disclaimer](#)




[Page Top](#)

Copyright © 2011 Underwriters Laboratories Inc.®

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2011 Underwriters Laboratories Inc.®"

WIRE

QUALITY & DEVELOPMENT TEAM				尺圖 SCALE		SMD POWER INDUCTOR
擔 當 DRAWN	說 計 DESIGNED	檢 認 CHECKED	承 認 APPROVED	/	NTS	
		-		DIM.	mm	
<b>SFCB1280T-331</b>					<b>6 / 6</b>	