

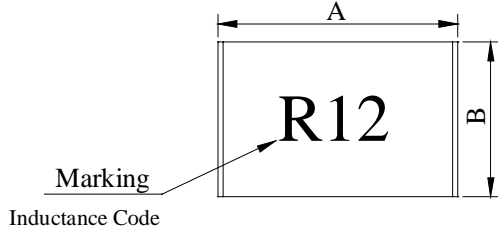
# SPECIFICATION FOR APPROVAL

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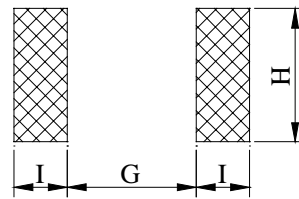
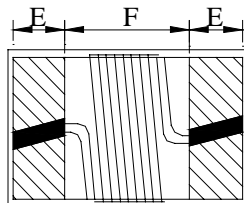
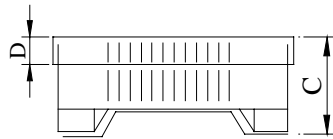
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PROD. NAME	<b>WOUND CHIP INDUCTOR</b>	ABC'S DWG NO.	SW3225□□□□Lo
		ABC'S ITEM NO.	

**. CONFIGURATION & DIMENSIONS :**

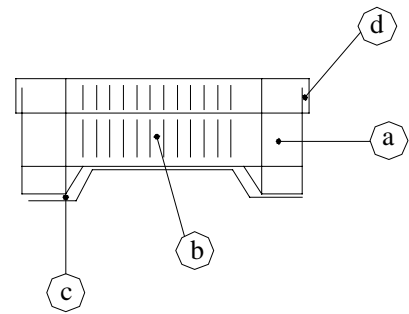


A	:	3.20±0.2	m/m
B	:	2.50±0.2	m/m
C	:	2.20±0.2	m/m
D	:	0.50	m/m
E	:	0.50	m/m
F	:	2.20	m/m
G	:	1.80	m/m
H	:	2.80	m/m
I	:	0.70	m/m



( PCB Pattern )

**. SCHEMATIC DIAGRAM :**



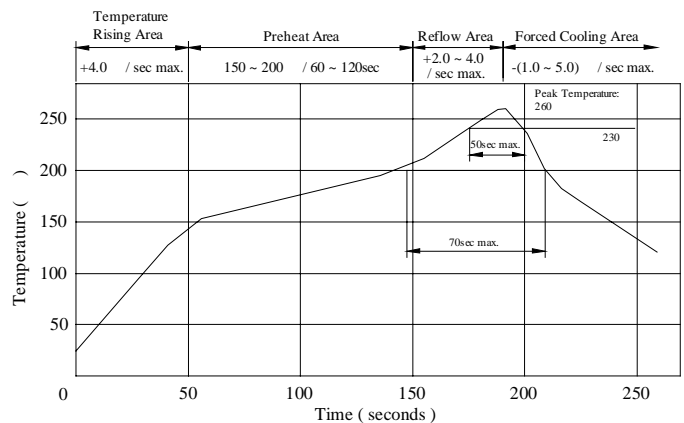
**. MATERIALS :**

- a . Core : Ceramic
- b . WIRE : Enamelled copper wire (class H)
- c . Terminal : Mo / Mn + Ni + Au
- d . Encapsulate : Epoxy
- e . Remark : Lead content 200ppm max.  
include ceramic

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

**. GENERAL SPECIFICATION :**

- a . Temp rise : 15 max.
- b . Rated current : Current cause inductance drop within 10% max.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+125



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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW3225□□□□L□
		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( nH )	Q min	Test Freq. ( MHz )		SRF ( MHz ) min	RDC ( Ω ) max	IDC ( mA ) max
			L	Q			
SW32254N7DL□	4.7 ± 0.3	50	100	1000	6000	0.060	1000
SW32255N6JL□	5.6 ± 5%	50	100	1000	5500	0.080	1000
SW322510NJL□	10.0 ± 5%	60	100	500	4000	0.060	1000
SW322512NJL□	12.0 ± 5%	60	100	500	3400	0.060	1000
SW322515NJL□	15.0 ± 5%	60	100	500	3200	0.060	1000
SW322518NJL□	18.0 ± 5%	60	100	300	2800	0.060	1000
SW322522NJL□	22.0 ± 5%	60	100	300	2300	0.080	1000
SW322527NJL□	27.0 ± 5%	60	100	300	2000	0.080	1000
SW322533NJL□	33.0 ± 5%	60	100	300	1800	0.080	1000
SW322539NJL□	39.0 ± 5%	60	100	300	1800	0.080	1000
SW322547NJL□	47.0 ± 5%	60	100	300	1600	0.080	1000
SW322556NJL□	56.0 ± 5%	60	100	300	1500	0.100	1000
SW322568NJL□	68.0 ± 5%	60	100	300	1300	0.100	1000
SW322582NJL□	82.0 ± 5%	60	100	300	1200	0.100	1000
SW3225R10JL□	100.0 ± 5%	60	100	300	1100	0.100	1000
SW3225R12JL□	120.0 ± 5%	60	50	300	900	0.120	800
SW3225R15JL□	150.0 ± 5%	60	50	300	800	0.180	800
SW3225R18JL□	180.0 ± 5%	60	50	300	760	0.210	800
SW3225R22JL□	220.0 ± 5%	60	50	300	660	0.270	800
SW3225R27JL□	270.0 ± 5%	50	50	300	600	0.330	700
SW3225R33JL□	330.0 ± 5%	50	50	100	550	0.370	650
SW3225R39JL□	390.0 ± 5%	50	50	100	500	0.630	600
SW3225R47JL□	470.0 ± 5%	50	50	100	450	0.690	550
SW3225R56JL□	560.0 ± 5%	50	50	100	400	0.900	450
SW3225R68JL□	680.0 ± 5%	50	25	100	380	1.050	400
SW3225R82JL□	820.0 ± 5%	50	25	100	350	1.450	350
SW32251R0JL□	1000.0 ± 5%	45	25	100	300	1.900	280
SW32251R2JL□	1200.0 ± 5%	45	7.96	50	300	2.200	250
SW32251R5JL□	1500.0 ± 5%	45	7.96	50	250	2.430	220
SW32251R8JL□	1800.0 ± 5%	45	7.96	50	200	3.360	180
SW32252R2JL□	2200.0 ± 5%	40	7.96	50	200	3.500	150

1). □ : Packaging Information...  Bulk  Taping Reel

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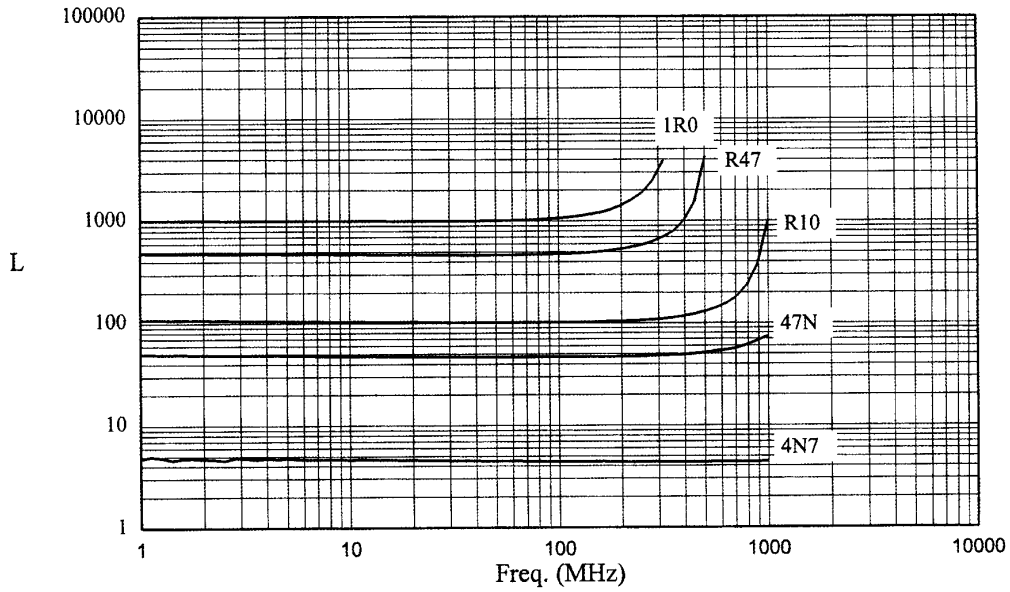
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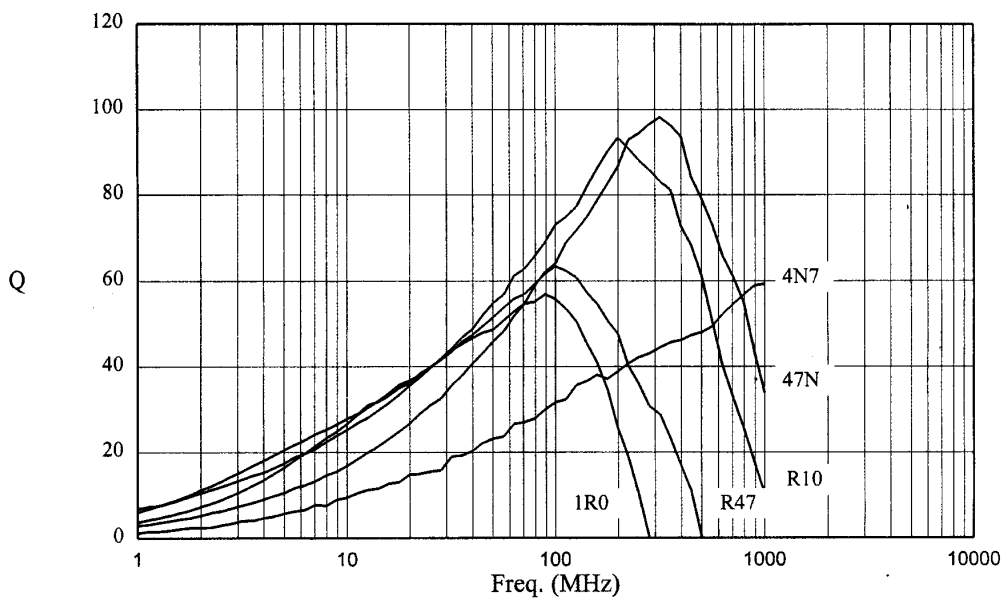
PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SW3225□□□□L□
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CURVE :

**L vs Freq Plot**



**Q vs Freq Plot**



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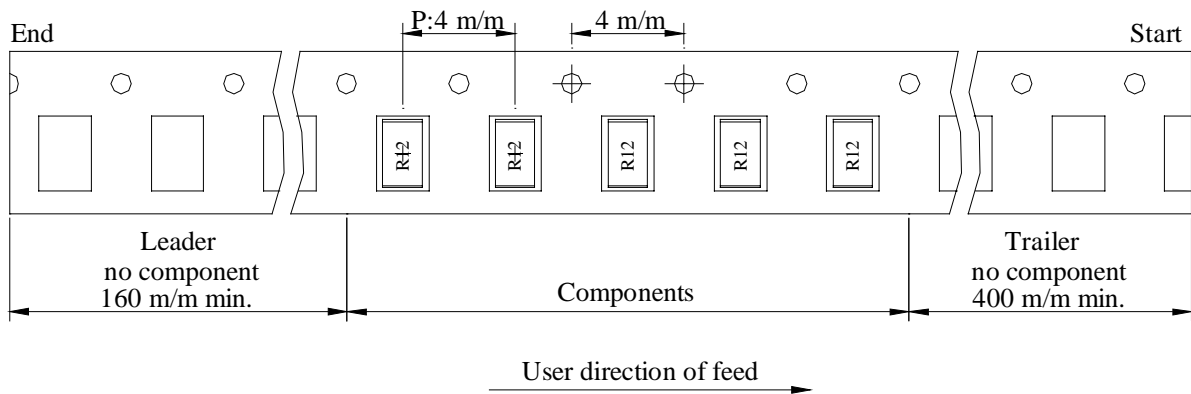
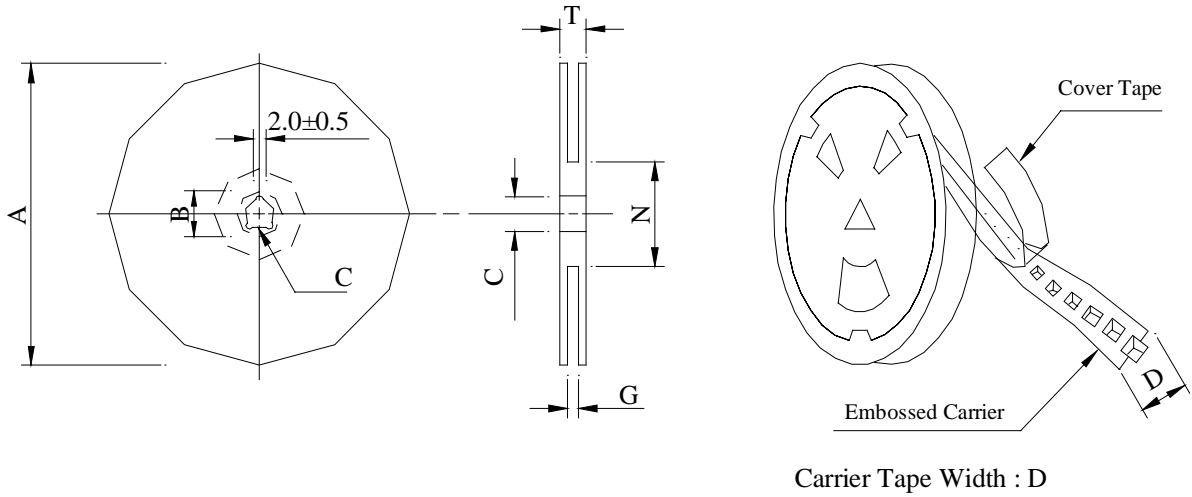
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW3225□□□□L□
		ABC'S ITEM NO.	

**PACKAGING INFORMATION :**

( 1 ) Configuration



( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 <sup>+0</sup>	50 <sup>-0</sup>	12.5

( 2 ) 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)
SW3225	2,000	95	07 - 08	100,000	6.50	41 x 39 x 22

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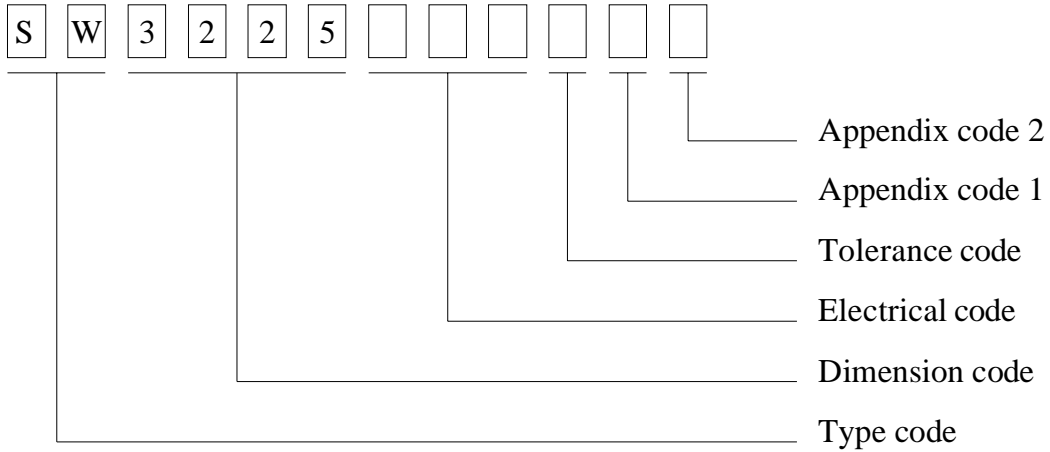
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW3225□□□□L□
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. DWG EXPRESSION :



Appendix code 1 : S : Standard products

A K , M R , T Z : Special products

L : Standard Lead Free products

1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner package	Inner package Q'TY	Remark
A	Empty	Empty	
B	T / R ( Reel package )	2000 pcs	

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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW3225□□□□L□
		ABC'S ITEM NO.	

**. RELIABILITY TEST :**

Test items	Specifications	Test conditions / Test methods
<i>ELECTRICAL PERFORMANCE TEST</i>		
L	Refer to standard electrical characteristic list	HP-4291A With HP-16193 Test fixture .
Q		HP-4291A With HP-16193 Test fixture.
SRF		HP-8753E
RDC		HP-4338B
Rated current IDC		Applied the current to coils the inductance change shall be less than 10% to initial value and temperature rise shall not be more than 20
Temperature rise test	20 max.	1.Applied the allowed DC current for 10 minutes. 2.Temperature measure by digital surface thermometer .
Over load test	After test , Inductors shall be no evidence of electrical and mechanical damage	Applied 2 times of rated allowed DC current to inductor for a period of five minutes .
Withstanding voltage test	After test , Inductors shall be no evidence of electrical and mechanical damage	500VAC between inductor terminals and center of case for a maximum 1 minute.
Insulation resistance test	1000 MΩ min.	100 VDC between inductor terminals and center case.
<i>MECHANICAL PERFORMANCE TEST</i>		
Vibration test (Low frequency)	1.There shall be no case deformation or change in appearance. 2.Inductance shall not change more than ±5% 3.Q shall not change more than±10%	1.Amplitude : 1.5 m/m 2.Frequency : 10-55-10Hz/min. 3.Direction : X,Y,Z 4.Duration : 2HRS/X,Y,Z
Vibration test (Low frequency )		Inductors shall be dropped 10 times from a height of 1m onto 3cm wooden board .
Resistance to soldering heat		Inductors shall be reflowed onto a P.C. board using solder paste. Solder process shall be 230 for 20±2 seconds and 260 for 5±2 seconds
Solderability test		The metalized area must have 90% min. solder coverage

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<b>PROD. NAME</b>	<b>WOUND CHIP INDUCTOR</b>	<b>ABC'S DWG NO.</b>	SW3225□□□□L□
		<b>ABC'S ITEM NO.</b>	
Component adhesion (Push test)	20N : 2012 , 2520 , 3225 10N : 1608 5N : 1005	The device shall be reflow soldered (230±5 for 10 seconds) to a tinned copper substrate. A dynamometer force gauge shall be applied to the side of the component . The device must withstand the minimum force indicated at left without a failure of the termination to board attachment.	
<i>CLIMATIC TEST</i>			
Temperature characteristic	1. There shall be no case deformation or change in appearance.	-40 ~125	
Humidity test	2. Inductance shall not change more than ±5%	Temp. : 50±2 R.H. : 90~95 % Time. : 96±2 hours	
Low temperature storage	3. Q shall not change more than ±10%	Temp. : -40±2 Time. : 48±2 hours	
Thermal shock test		-40 for 30 minutes. +125 for 30 minutes. Total : 10 cycles	
High temperature storage		Temp. : 125±2 Time. : 48±2 hours	
Note : Inductors are to be tested after 1 hour at room temperature.			
<i>LIFE TEST</i>			
High temperature load life test	Inductors shall not have a shorted or open winding.	1. Temp : 85±2 2. Time : 1000±12 hours 3. Load : Allowed DC current	
Humidity load life		1. Temp : 40±2 2. R.H. : 90-95% 3. Time : 1000±12 hours 4. Load : Allowed DC current	

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PROD. NAME	<b>WOUND CHIP INDUCTOR</b>	ABC'S DWG NO.  ABC'S ITEM NO.	SW3225□□□□L□
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**. UL CARD :**

OBMW2 August 27, 1999  
Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) SDN BHD E143312  
IALAN DAMN SATU IANDA BAIK 28750 BENTONG, PAHANG  
DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 160	E180	Polyesterimide (solderable)	---	MW-77	180
Amldester 200	A200	Polyesterimide	---	MW-74	200
Polysol-N 155	PN155	Polyurechane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurechane	---	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurechane	---	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurechane	---	MW-79	155
Polysol 160	P160	Polyurechane	---	MW-79	155
Polysol 180	P180	Polyurechane	---	MW-79	155
Polysol 170	P170 or G170	Polyurechane	---	MW-79	156
Polysol-N 180	PN180	Polyurechane	Nylon	---	180

Marking : Dompany name/nateriel designation or marked designation and factory identification on package ok reel

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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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