

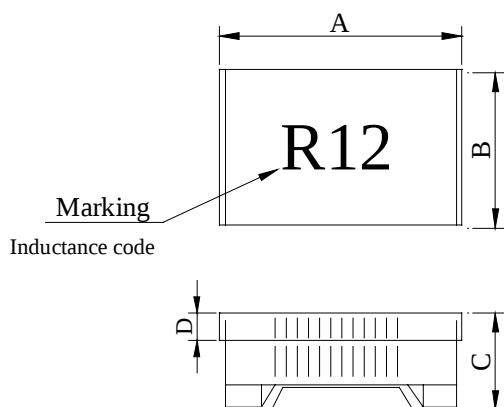
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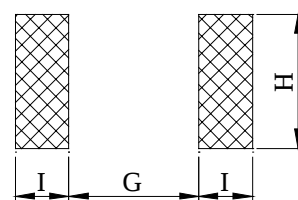
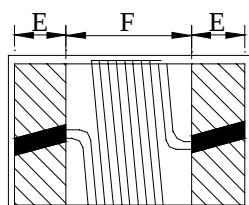
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
		ABC'S ITEM NO.	

· CONFIGURATION & DIMENSIONS :



A	: 2.00±0.2	m/m
B	: 1.25±0.2	m/m
C	: 1.20±0.2	m/m
D	: 0.50	m/m
E	: 0.50	m/m
F	: 1.00	m/m
G	: 0.80	m/m
H	: 1.40	m/m
I	: 0.60	m/m



(PCB Pattern)

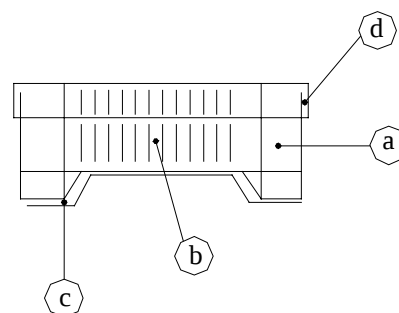
· SCHEMATIC DIAGRAM :



· MATERIALS :

- a . Core : Ferrite
- b . WIRE : Enamelled copper wire (class H)
- c . Terminal : Ag + Ni + Sn (lead content 100ppm max.)
- d . Encapsulate : Epoxy
- e . Remark : Lead content 1000ppm max.

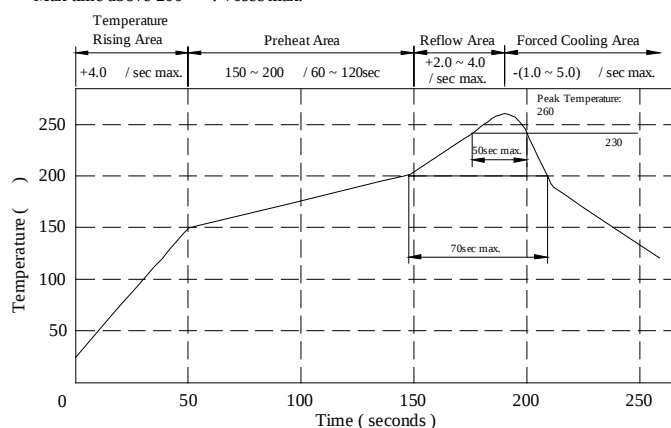
include ferrite



· GENERAL SPECIFICATION :

- a . Temp rise : 15 max.
- b . Rated current : Current cause inductance drop within 10% max.
- c . Storage temp. : -40 ----+85
- d . Operating temp. : -40 ----+85

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



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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
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. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (uH)	Q min	Test Freq. (MHz)		SRF (MHz) min	RDC (Ω) max	IDC (mA) max
			L	Q			
SW2022R47K2□	0.47±10%	45	25.2	100	375	0.95	500
SW2022R56K2□	0.56±10%	45	25.2	100	340	1.10	450
SW2022R68K2□	0.68±10%	35	25.2	100	188	1.20	400
SW2022R82K2□	0.82±10%	35	25.2	100	215	1.50	300
SW20221R0K2□	1.00±10%	35	25.2	50	200	2.13	180
SW20221R2K2□	1.20±10%	15	7.96	7.96	200	2.38	150
SW20221R5K2□	1.50±10%	15	7.96	7.96	200	2.90	130
SW20221R8K2□	1.80±10%	15	7.96	7.96	120	3.00	120
SW20222R2K2□	2.20±10%	15	7.96	7.96	110	3.10	110
SW20222R7K2□	2.70±10%	15	7.96	7.96	100	3.50	100
SW20223R3K2□	3.30±10%	15	7.96	7.96	70	2.30	210
SW20223R9K2□	3.90±10%	15	7.96	7.96	60	2.50	200
SW20224R7K2□	4.70±10%	15	7.96	7.96	50	2.80	180
SW20225R6K2□	5.60±10%	15	7.96	7.96	45	3.00	160
SW20226R8K2□	6.80±10%	15	7.96	7.96	45	3.20	130
SW20228R2K2□	8.20±10%	15	7.96	7.96	40	3.50	120
SW2022100K2□	10.00±10%	15	2.52	2.52	40	5.00	80

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

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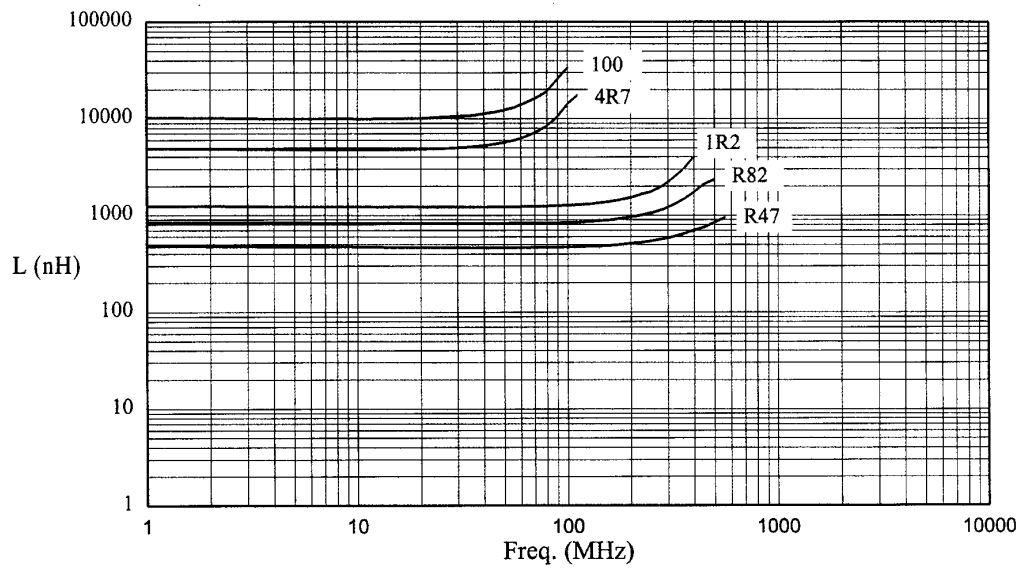
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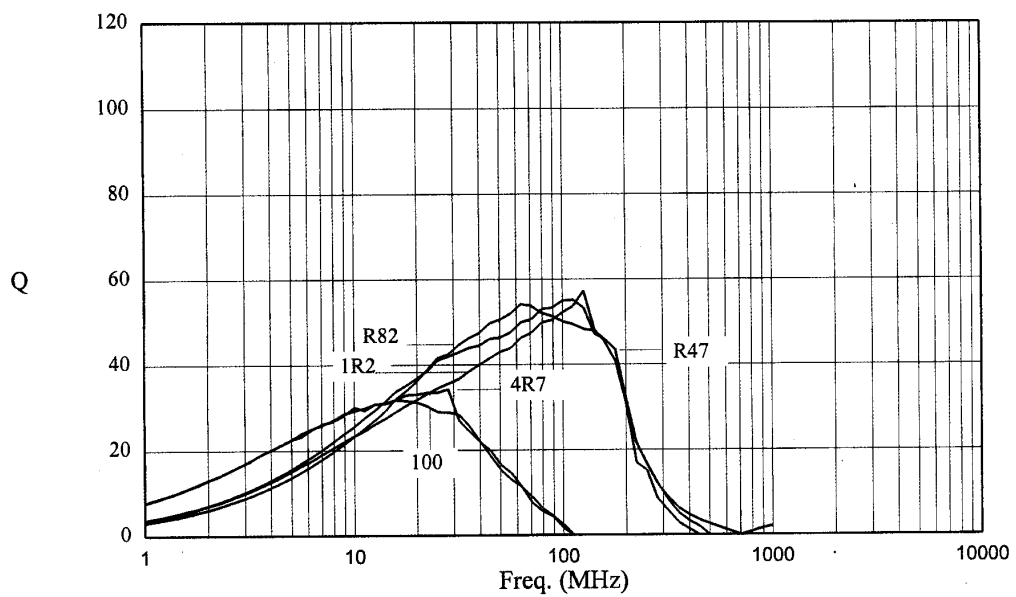
PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
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CURVE :

L vs Freq Plot



Q vs Freq Plot



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ABC ELECTRONICS GROUP.

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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
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PACKAGING INFORMATION :

(1) Configuration

Carrier Tape Width : D

(2) Dimensions Unit:m/m

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

(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)
SW2022	2,000	90	07 - 08	100,000	6.50	41 x 39 x 22

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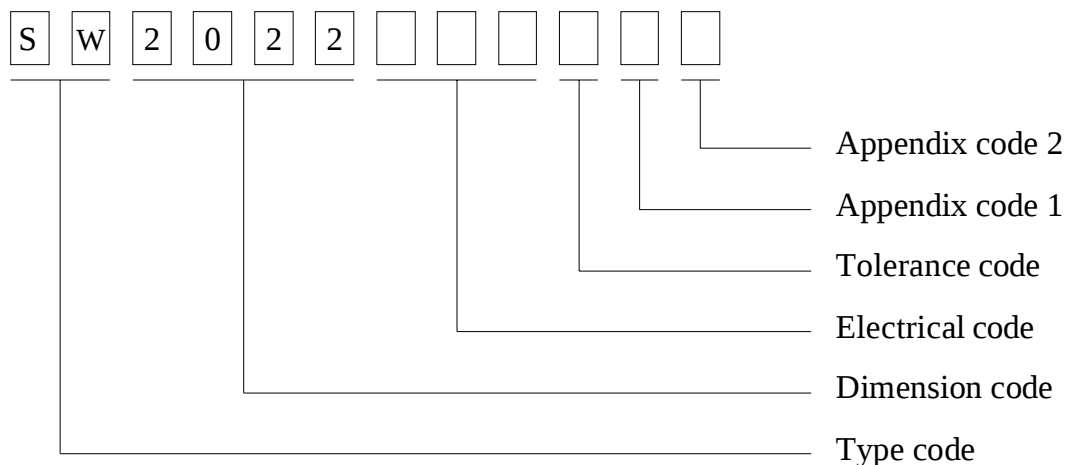
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. DWG EXPRESSION :



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.	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
NAME		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		Dip pads in flux (Alpha 100 or equiv.) and dip in solder pot at 230±5 for 5 seconds

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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SW2022□□□□2□
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.	
CLIMATIC TEST			
Temperature characteristic	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%	-40 ~125	
Humidity test		Temp. : 50±2 R.H. : 90~95 % Time. : 96±2 hours	
Low temperature storage		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.			
LIFE TEST			
High tempera - ture 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	WOUND CHIP INDUCTOR	ABC'S DWG NO.	SW2022□□□□2□
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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	Polyurethane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurethane	—	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurethane	—	MW-79	130
Polysol 155p	Pp155, Gp155	Polyurethane	—	MW-79	155
Polysol 160	P160	Polyurethane	—	MW-79	155
Polysol 180	P180	Polyurethane	—	MW-79	155
Polysol 170	P170 or G170	Polyurethane	—	MW-79	156
Polysol-N 180	PN180	Polyurethane	Nylon	—	180

Marking : Company name/material designation or marked designation and factory identification on package ok reel

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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