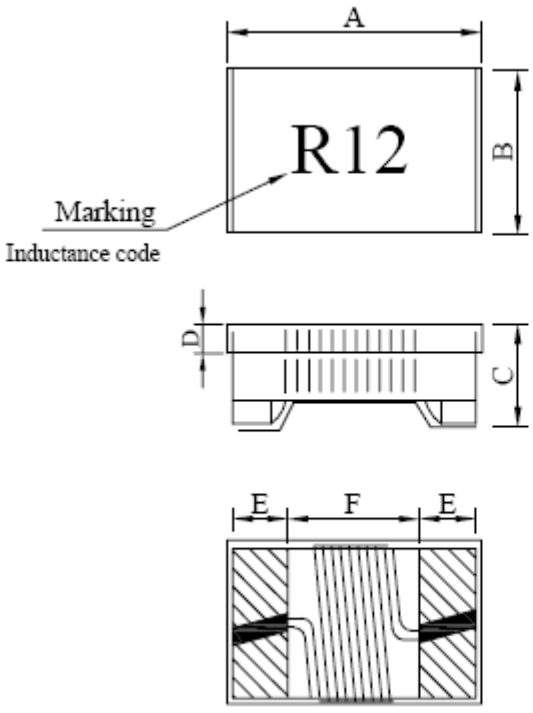
千如電機工業股份有限公司
ABC TAIWAN ELECTRONICS CORP

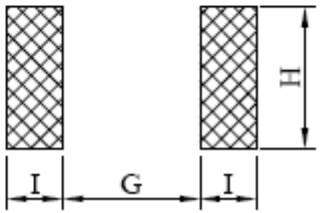
| 中文版 | English

Wound Chip Inductor SW2022-L-□□□ Series

◆ CONFIGURATION & DIMENSIONS Print

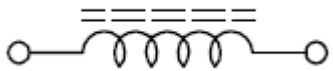


A	:	2.00±0.2	m/m
B	:	1.25±0.2	m/m
C	:	1.20±0.2	m/m
D	:	0.50	m/m
E	:	0.50	m/m
F	:	1.00	m/m
G	:	0.80	m/m
H	:	1.40	m/m
I	:	0.60	m/m



(PCB Pattem)

◆ SCHEMATIC DIAGRAM :



◆ MATERIALS :

a . Core : Ceramic

b . WIRE : Enamelled copper wire (class H)

c . Terminal : Mo / Mn + Ni + Au

d . Encapsulate : Epoxy

e . Remark : Products comply with RoHS' requirements

◆ GENERAL SPECIFICATION :

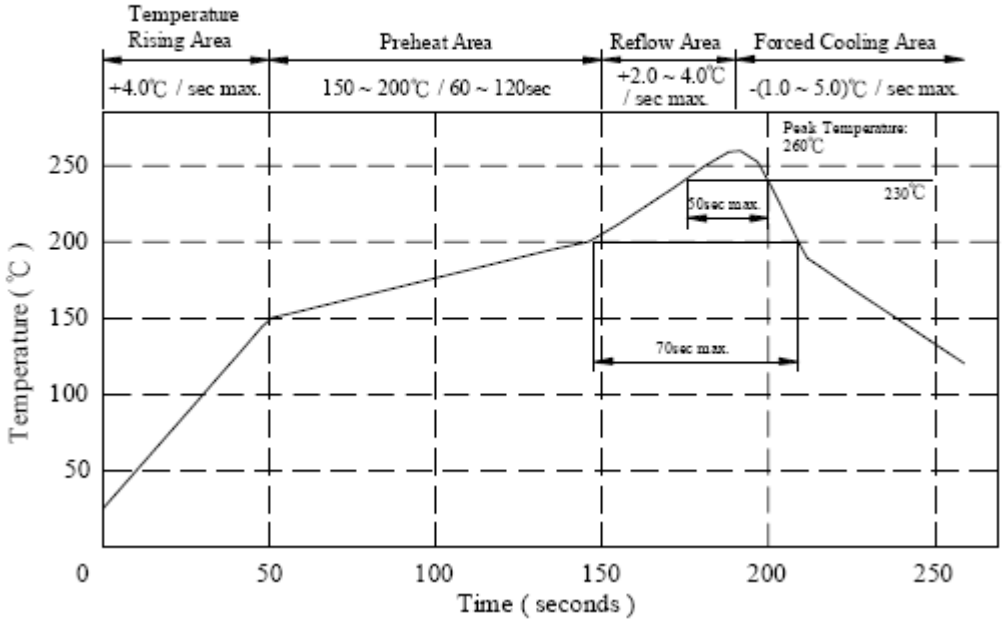
a . Temp rise : 15℃ max.

b . Rated current : Current cause inductance drop within 10% max.

c . Storage temp. : -40℃ ----+125℃

d . Operating temp. : -40℃----+125℃

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

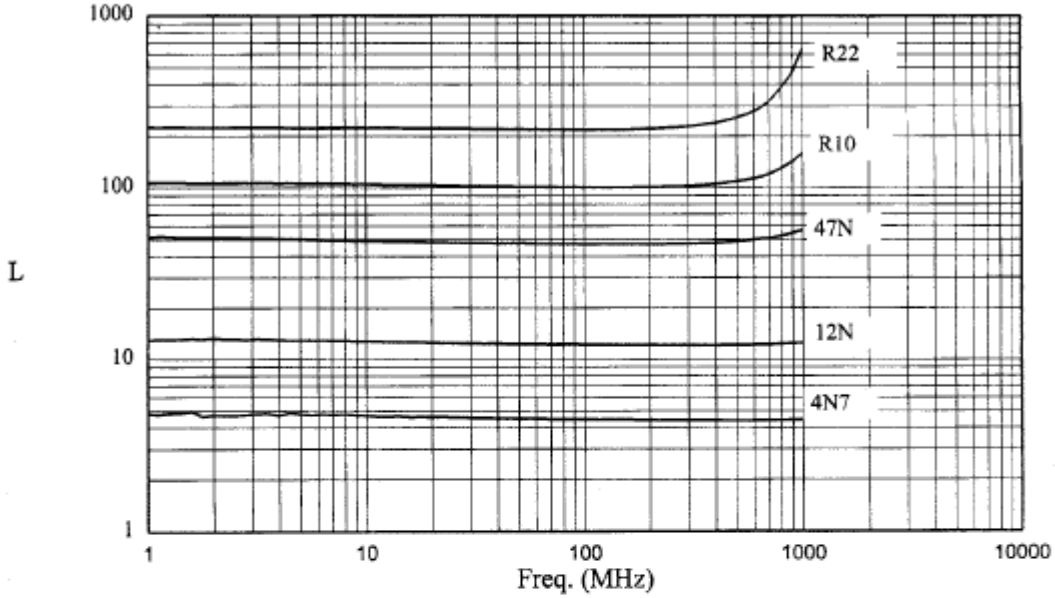


ELECTRICAL CHARACTERISTICS :

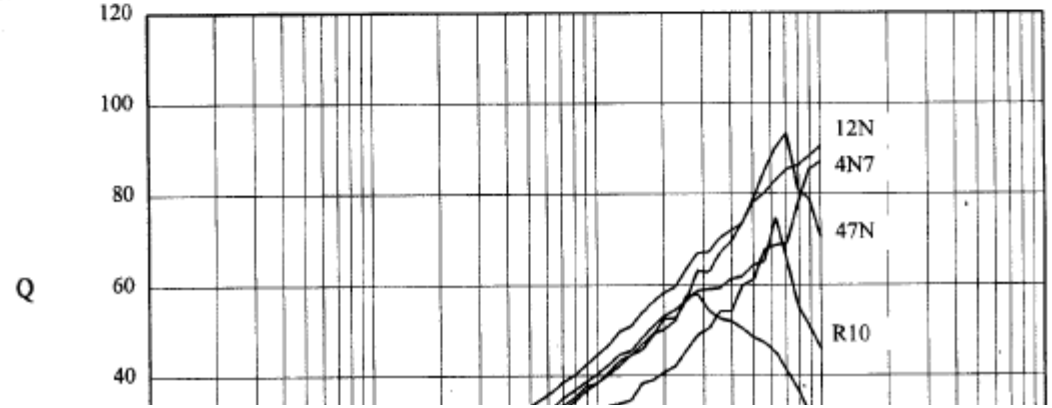
DWG No.	Inductance (nH)	Tolerance	Q min.	Test Freq. (MHz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
				L	Q			
SW20222N2□L□-□□□	2.2	C、D	50	250	1000	6000	0.06	800
SW20222N7□L□-□□□	2.7	C、D	35	250	1000	6000	0.08	800
SW20223N3□L□-□□□	3.3	C、D	60	250	1000	6000	0.08	800
SW20223N9□L□-□□□	3.9	C、D	60	250	1000	6000	0.06	600
SW20224N7□L□-□□□	4.7	C、D	60	250	1000	5800	0.06	600
SW20225N1□L□-□□□	5.1	C、J、K	60	250	1000	5800	0.08	600
SW20225N6□L□-□□□	5.6	C、J、K	60	250	1000	5800	0.08	600
SW20226N8□L□-□□□	6.8	C、J、K	60	250	1000	5500	0.06	600
SW20228N2□L□-□□□	8.2	G、J、K	60	250	1000	5500	0.06	600
SW202210N□L□-□□□	10.0	G、J、K	60	250	500	4800	0.08	600
SW202212N□L□-□□□	12.0	G、J、K	60	250	500	4100	0.08	600
SW202215N□L□-□□□	15.0	G、J、K	60	250	500	3600	0.08	600
SW202218N□L□-□□□	18.0	G、J、K	60	250	500	3400	0.08	600
SW202222N□L□-□□□	22.0	G、J、K	60	250	500	3300	0.10	600
SW202227N□L□-□□□	27.0	G、J、K	60	250	500	2600	0.12	600
SW202233N□L□-□□□	33.0	G、J、K	60	250	500	2400	0.15	500
SW202239N□L□-□□□	39.0	G、J、K	60	250	500	2100	0.18	500
SW202247N□L□-□□□	47.0	G、J、K	60	200	500	1700	0.15	500
SW202256N□L□-□□□	56.0	G、J、K	60	200	500	1600	0.25	500
SW202268N□L□-□□□	68.0	G、J、K	60	200	500	1450	0.27	500
SW202282N□L□-□□□	82.0	G、J、K	60	150	500	1350	0.32	500
SW2022R10□L□-□□□	100.0	G、J、K	60	150	500	1200	0.43	500
SW2022R12□L□-□□□	120.0	G、J、K	50	150	250	1100	0.48	500
SW2022R15□L□-□□□	150.0	G、J、K	50	100	250	950	0.56	400
SW2022R18□L□-□□□	180.0	G、J、K	50	100	250	900	0.78	400
SW2022R22□L□-□□□	220.0	G、J、K	50	100	250	860	1.00	400
SW2022R27□L□-□□□	270.0	G、J、K	45	100	250	850	1.46	350
SW2022R33□L□-□□□	330.0	G、J、K	45	100	250	800	1.65	300
SW2022R39□L□-□□□	390.0	G、J、K	45	100	250	780	2.20	210

◆ CURVE :

L vs Freq Plot

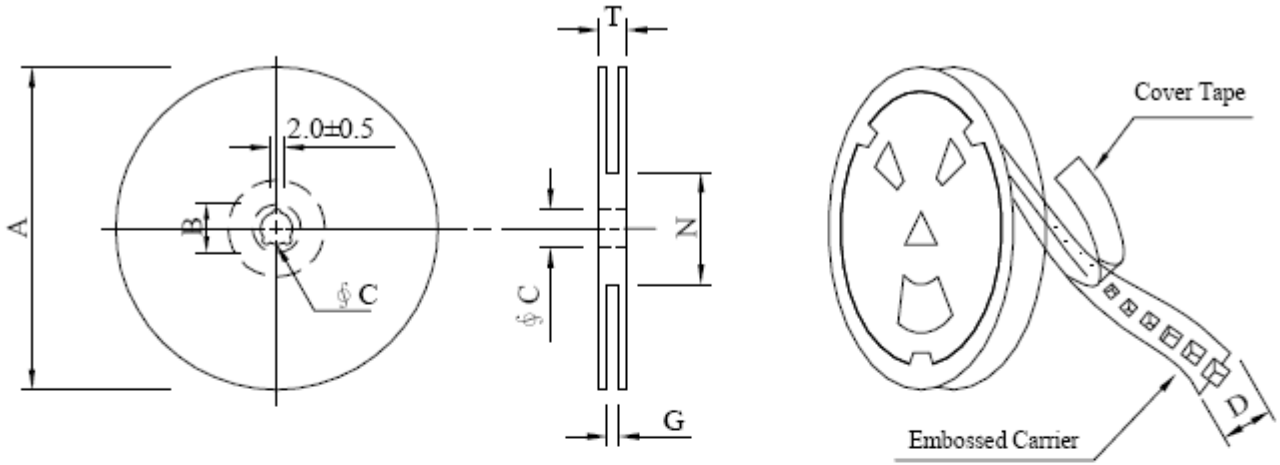


Q vs Freq Plot

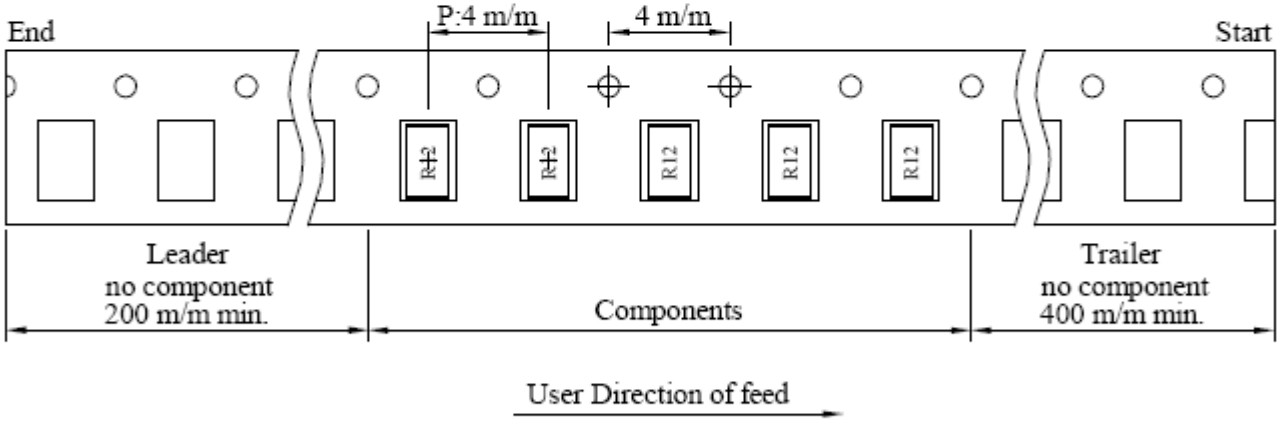


◆ PACKAGING INFORMATION :

(1) Configuration



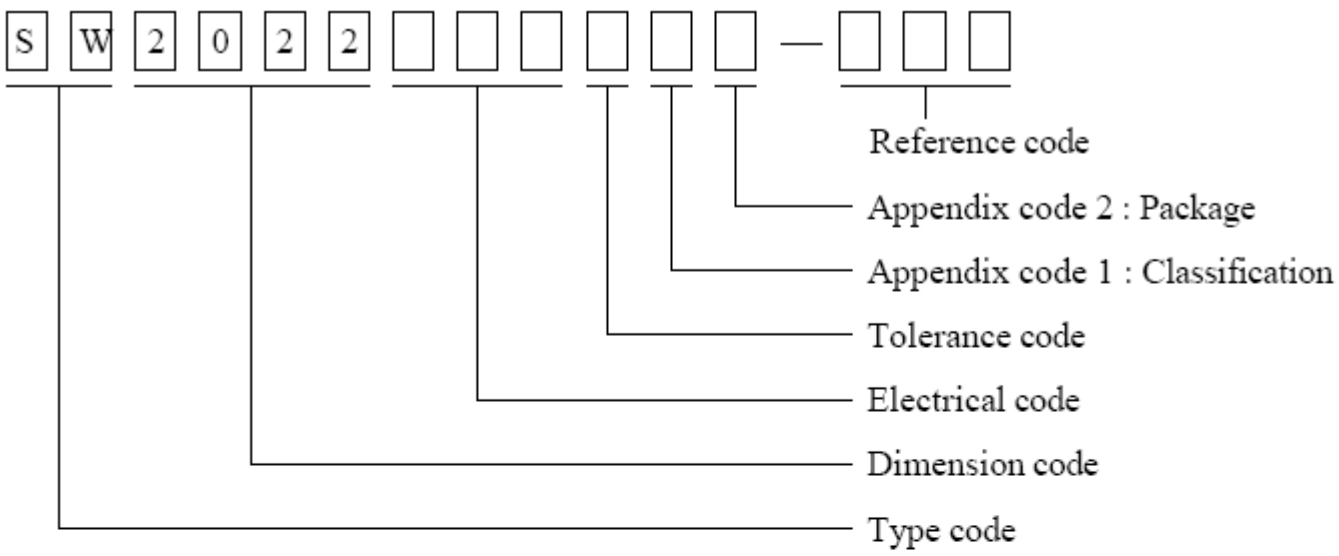
※Carrier Tape Width : D



(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

◆ 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)	2000 pcs	

◆ RELIABILITY TEST :

Test items	Specifications	Test conditions / Test methods
ELECTRICAL PERFORMANCE TEST		
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 digtal 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.
MECHANICAL PERFORMANCE TEST		
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 .

◆ 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 BC	Coating Type OC	ANSI Typ	Temp Class
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

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Print