

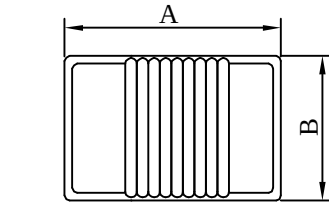
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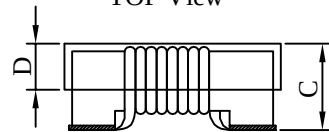
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		ABC'S ITEM NO.	

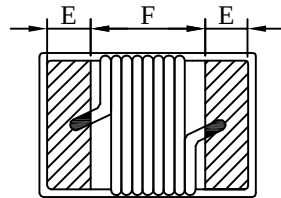
I . CONFIGURATION & DIMENSIONS :



TOP View

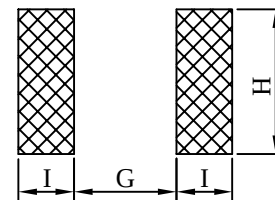


SIDE View



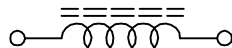
BOTTOM View

A	: 1.00 ± 0.1	m/m
B	: 0.55 ± 0.1	m/m
C	: 0.50 ± 0.1	m/m
D	: 0.30	m/m
E	: 0.20	m/m
F	: 0.50	m/m
G	: 0.40	m/m
H	: 0.40	m/m
I	: 0.50	m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



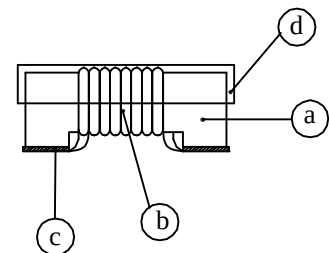
III . MATERIALS :

- 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'

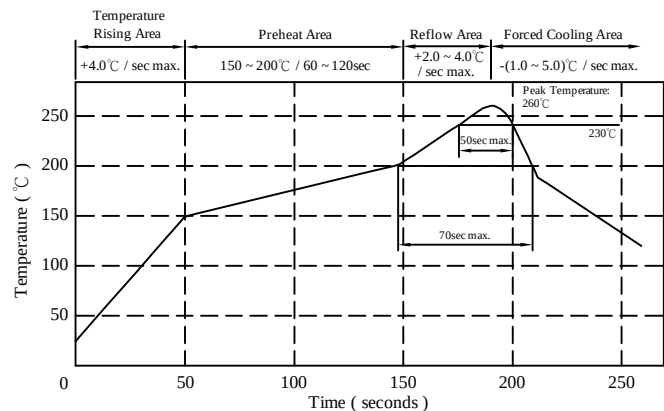
requirements

IV . GENERAL SPECIFICATION :

- a . Temp rise : 15°C max
- b . Rated current : Current cause inductance drop within 10% max.
- c . Stopage temp. : -55°C ----+125°C
- d . Operating temp. : -55°C ----+125°C



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



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (nH)	Q min.	L / Q Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
SW10051N0DL□-□□□	1.0 ± 0.3	13	250	6000	0.045	1360
SW10051N9DL□-□□□	1.9 ± 0.3	16	250	6000	0.070	1040
SW10052N0DL□-□□□	2.0 ± 0.3	16	250	6000	0.070	1040
SW10052N2DL□-□□□	2.2 ± 0.3	18	250	6000	0.070	960
SW10052N4DL□-□□□	2.4 ± 0.3	16	250	6000	0.068	790
SW10052N7DL□-□□□	2.7 ± 0.3	16	250	6000	0.120	640
SW10053N3JL□-□□□	3.3 ± 5%	20	250	6000	0.066	840
SW10053N6JL□-□□□	3.6 ± 5%	20	250	6000	0.066	840
SW10053N9JL□-□□□	3.9 ± 5%	20	250	5800	0.066	840
SW10054N3JL□-□□□	4.3 ± 5%	18	250	6000	0.091	700
SW10054N7JL□-□□□	4.7 ± 5%	15	250	4775	0.130	640
SW10055N1JL□-□□□	5.1 ± 5%	23	250	5800	0.083	800
SW10055N6JL□-□□□	5.6 ± 5%	23	250	5800	0.083	760
SW10056N2JL□-□□□	6.2 ± 5%	23	250	5800	0.083	760
SW10056N8JL□-□□□	6.8 ± 5%	20	250	4800	0.083	680
SW10057N5JL□-□□□	7.5 ± 5%	25	250	5800	0.104	680
SW10058N2JL□-□□□	8.2 ± 5%	25	250	4400	0.104	680
SW10058N7JL□-□□□	8.7 ± 5%	18	250	4100	0.200	480
SW10059N0JL□-□□□	9.0 ± 5%	25	250	4160	0.104	680
SW10059N5JL□-□□□	9.5 ± 5%	18	250	4000	0.200	680
SW100510NJL□-□□□	10.0 ± 5%	23	250	3900	0.195	480
SW100511NJL□-□□□	11.0 ± 5%	26	250	3680	0.120	640
SW100512NJL□-□□□	12.0 ± 5%	26	250	3600	0.120	640
SW100513NJL□-□□□	13.0 ± 5%	24	250	3450	0.210	560
SW100515NJL□-□□□	15.0 ± 5%	26	250	3280	0.172	560
SW100516NJL□-□□□	16.0 ± 5%	24	250	3100	0.220	560
SW100518NJL□-□□□	18.0 ± 5%	25	250	3100	0.230	420
SW100519NJL□-□□□	19.0 ± 5%	26	250	3040	0.202	480
SW100520NJL□-□□□	20.0 ± 5%	25	250	3000	0.250	420
SW100522NJL□-□□□	22.0 ± 5%	25	250	2800	0.300	400
SW100523NJL□-□□□	23.0 ± 5%	26	250	2720	0.214	400
SW100524NJL□-□□□	24.0 ± 5%	25	250	2700	0.300	400
SW100527NJL□-□□□	27.0 ± 5%	26	250	2480	0.298	400
SW100530NJL□-□□□	30.0 ± 5%	25	250	2350	0.300	400
SW100533NJL□-□□□	33.0 ± 5%	24	250	2350	0.350	400
SW100536NJL□-□□□	36.0 ± 5%	26	250	2320	0.403	320
SW100539NJL□-□□□	39.0 ± 5%	25	250	2100	0.550	320
SW100540NJL□-□□□	40.0 ± 5%	26	250	2240	0.438	320
SW100543NJL□-□□□	43.0 ± 5%	25	250	2030	0.810	230
SW100547NJL□-□□□	47.0 ± 5%	26	200	2100	0.830	210
SW100551NJL□-□□□	51.0 ± 5%	25	200	1750	0.820	210
SW100556NJL□-□□□	56.0 ± 5%	22	200	1760	0.970	200
SW100568NJL□-□□□	68.0 ± 5%	22	200	1620	1.120	180
SW100582NJL□-□□□	82.0 ± 5%	20	150	1500	1.250	150
SW1005R10JL□-□□□	100.0 ± 5%	20	150	1300	2.520	120
SW1005R12JL□-□□□	120.0 ± 5%	20	150	1100	2.660	110

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

2)."- □□□ ":Reference code

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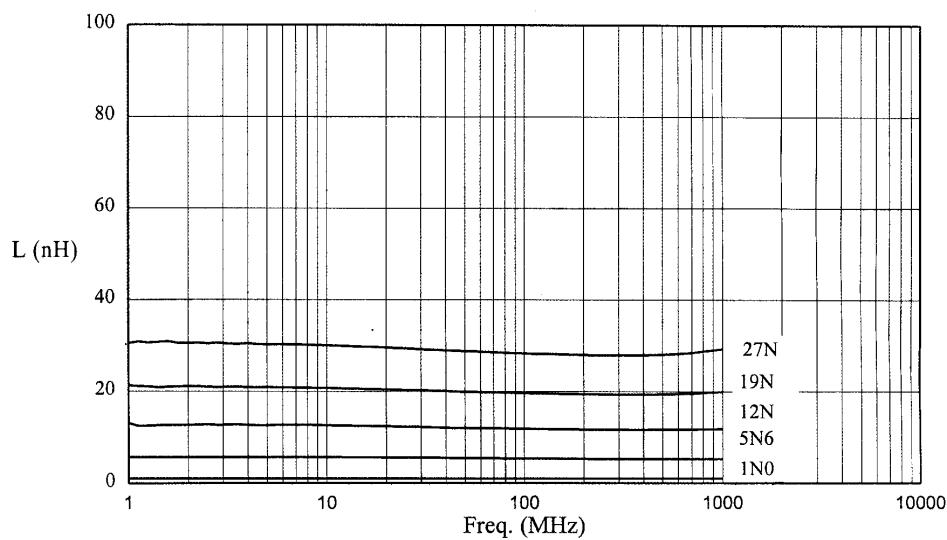
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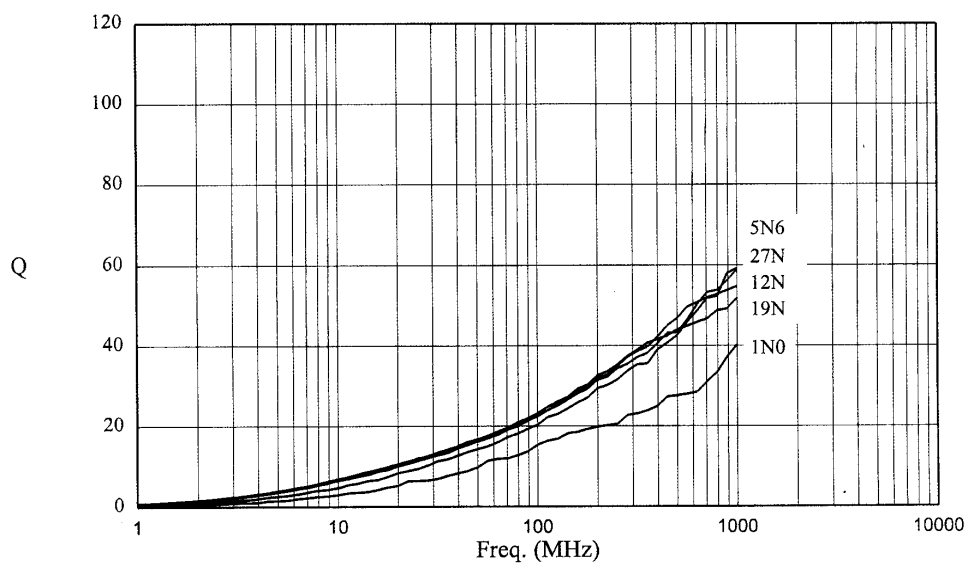
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VI . CURVE :

L vs Freq Plot



Q vs Freq Plot



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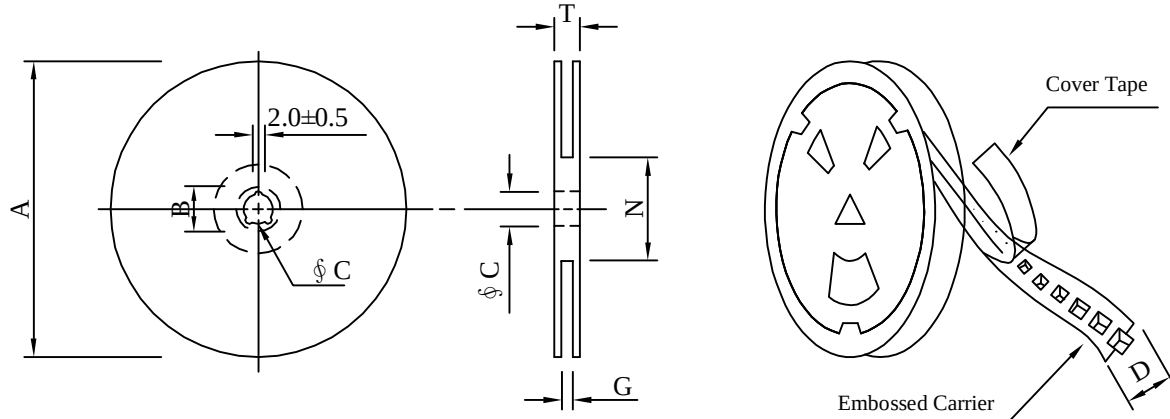
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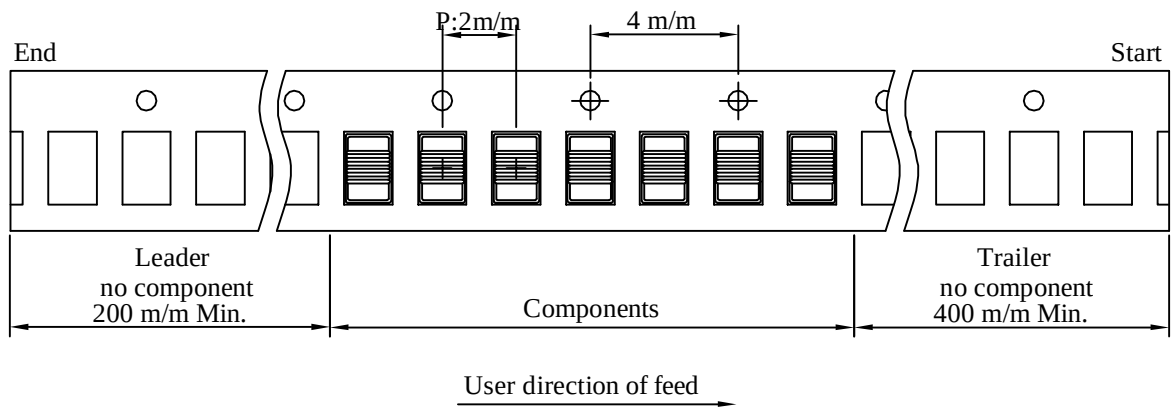
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VII . PACKAGING INFORMATION :

(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

(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)
SW1005	10,000	100	07 - 08	500,000	5.50	41 x 39 x 22

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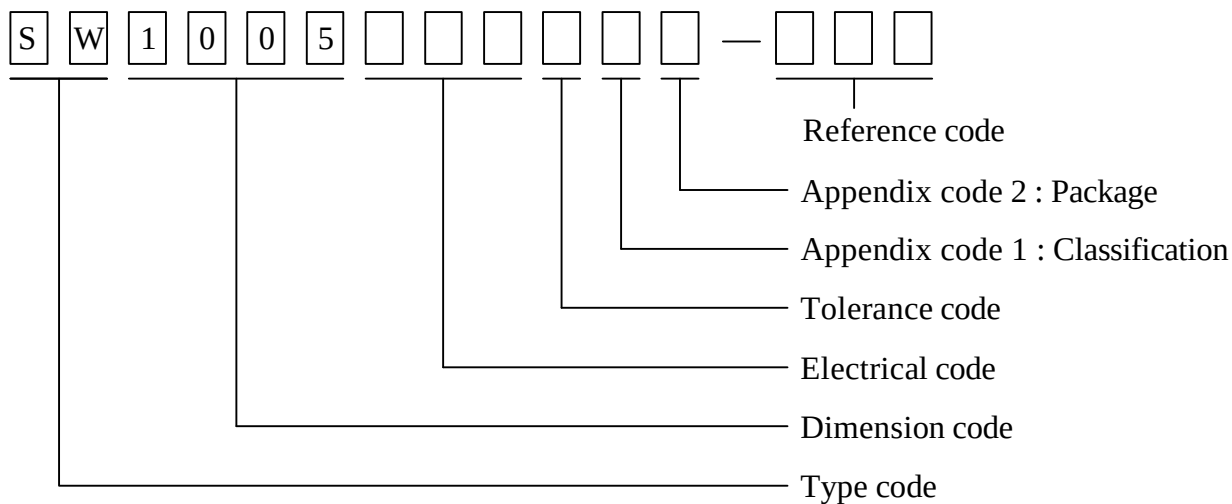
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VIII . DWGING NUMBER EXPRESSION :



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)	10000 pcs	

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IX . 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.	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)	2.Inductance shall not change more than ±5%	Inductors shall be dropped 10 times from a height of 1m onto 3cm wooden board .
Resistance to soldering heat	3.Q shall not change more than±10%	
Solderability test	The metalized area must have 90% min. solder coverage	Dip pads in flux (Alpha 100 or equiv.) and dip in solder pot at 230±5℃ for 5 seconds

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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.
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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%	-55℃~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 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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		ABC'S ITEM NO.	

X . UL CARD :

OBMW2

August 27, 1999

Magnet Wire-Comporent

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,	155,
				MW-28	100
Polysol 155	P155	Polyurethane	—	MW-79,	155,
				MW-79	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 : 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.

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