SPECIFICATION

SPEC. No. U227NAA00270

DATE: November 11, 2013

То

CUSTOMER'S PRODUCT NAME

TDK'S PRODUCT NAME

MLG0603P series

RECEIPT CONFIRMATION

DATE: YEAR MONTH DAY

TDK Corporation

Sales

Electronic Components Sales & Marketing Group

Engineering

TDK-EPC Corporation Magnetics Business Group Multilayer Products Business Unit

APPROVED	PERSON IN CHARGE

APPROVED	CHECKED	PERSON IN CHARGE
Y.Abe	K.Sasaki	S.Abe

Confidential

CAUTION WHEN HANDLING

Before use the products, please read this specification.

CAUTION FOR SAFETY USING

When use the products, be careful to the mentioned below for safety using.



CAUTION

- * Do not use and store the product in condition of gas corrosion (Salt, Acid, Alkaline).
- * The product must be preheated before soldering. Difference between preheat and soldering temperature must be within 150°C.
- * Rework by soldering iron; Please keep the mentioned conditions in this specification.
- * In case of insert P.C. Board on chassis, do not add mechanical stress to the product.
- * The product has self heat (temperature rise) by current, so keep margin for heat design.
- * Be careful to arrange of non-magnetic shield type inductors. The error may be caused by magnetic field coupling.
- * In case handle the products, please use wrist strap for ground static discharge on human body.
- * The product keeps away from magnet or magnetized things.
- * Do not use the product beyond the mentioned conditions in this specification.
- * About an application

The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.

- 1) Aerospace/Aviation equipment
- 2) Medical equipment which directly endanger human life
- 3)Power-generation control equipment
- 4) Atomic energy-related equipment
- 5)Seabed equipment
- 6)Transportation control equipment
- 7) Military equipment
- 8) Safety equipment
- 9)Other applications that are not considered general-purpose applications

If you intend to use the products in the following applications, please contact our sales office.

- + Transportation equipment (cars, electric trains, ships, etc.),
- + Public information-processing equipment,
- + Electric heating apparatus / burning equipment,
- + Disaster prevention/crime prevention equipment

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

Ver. MLG0603PE-14

1. SCOPE

This specification applies to the MULTILAYER CERAMIC COIL (MLG0603P series). It is delivered to <u>BBK</u>.

2. PRODUCT NAME

Product name decided in this specification is due to Table3 on page3 to 6.

3. CONTENT MENTIONED

Item	Attached drawings and tables	Page
1. OUTLINE DRAWING AND DIMENSION	Table 1 to Table 2, Figure 1	2
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Measurement condition:

Unless otherwise specified, the standard measurement conditions are as follow;

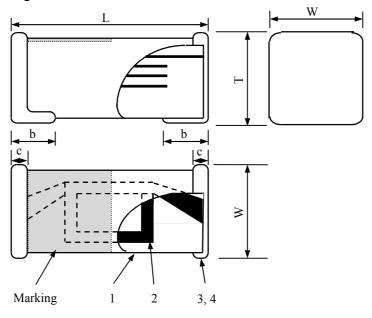
Ambient temperature : 5°C to 35°C Relative humidity : 35 % to 85 % Air pressure : 86 to 106kPa

If there is any doubt about the results, measurements shall be made within the following conditions;

Revision Records

Rev.	Date	Revised By	Change Description		
			Initial Date	Spec. No.	
		November 11, 2013	U227NAA00270		

1-1) Outline drawing and Dimension



[Figure 1]

*) Take care of direction of marking to prevent inductance unevenness. (There is no polarity, however unevenness of inductance could occur)

[Table 1]

Dimension and Tolerance (mm)						
L	W	Т	b	c		
0.60±0.03	0.30±0.03	0.30±0.03	0.15±0.05	0.09±0.04		

1-2) Making of material

[Table 2]

		_
No.	Item	Material
1	Core	Dielectric ceramics
2	Internal electrode	Ag
3	Terminal electrode (Inside)	Ag
4	Terminal electrode (Outside)	Electro plating (Ni-Sn)

			[Table 3] ductance	L,Q		S.R.F.	R.D.C.	I.D.											
Customer's	TDK's		L[nH]	test freq.	Q	[GHz]	[ohm]	[m/											
Product Name	Product Name		Tolerance	[MHz]	Min.	Min.	Max.	Max											
	MLG0603P0N6BTZ10																		
	MLG0603P0N6CTZ10	0.60		'		10.0	0.06	100											
	MLG0603P0N7BTZ10		1			100													
	MLG0603P0N7CTZ10	0.70	B:±0.1nH			10.0	0.06	100											
	MLG0603P0N8BTZ10	0.00	C:±0.2nH		-	10.0	0.06	100											
	MLG0603P0N8CTZ10	0.80				10.0	0.06	100											
	MLG0603P0N9BTZ10	0.00				10.0	0.06	100											
	MLG0603P0N9CTZ10	0.90					10.0	0.06	100										
	MLG0603P1N0BTZ10	Ī		'															
	MLG0603P1N0CTZ10	1.00		'		10.0	0.07	100											
	MLG0603P1N0STZ10	i		'		İ													
	MLG0603P1N1BTZ10	1	1	'															
,	MLG0603P1N1CTZ10	1.10		'		10.0	0.07	100											
	MLG0603P1N1STZ10	ĺ		'		İ													
	MLG0603P1N2BTZ10		1	'															
	MLG0603P1N2CTZ10	1.20		'		10.0	0.08	80											
	MLG0603P1N2STZ10	i		'		İ													
,	MLG0603P1N3BTZ10			'				1											
	MLG0603P1N3CTZ10	1.30						10.0	0.08	80									
	MLG0603P1N3STZ10	ĺ							İ										
	MLG0603P1N4BTZ10		1												†				
	MLG0603P1N4CTZ10	1.40												10.0	0.09	80			
	MLG0603P1N4STZ10	1		'															
	MLG0603P1N5BTZ10	1	1	500	7 00							i	i						
,	MLG0603P1N5CTZ10	1.50)				10.0	0.10	80										
,	MLG0603P1N5STZ10			500		İ													
,	MLG0603P1N6BTZ10	Ī		.2nH											,		ĺ		<u> </u>
	MLG0603P1N6CTZ10	1.60									10.0	0.10	70						
,	MLG0603P1N6STZ10	ĺ	B:±0.1nH		1 1	İ													
,	MLG0603P1N7BTZ10	Ī	C:±0.2nH		14	ĺ		<u> </u>											
,	MLG0603P1N7CTZ10	1.70	S:±0.3nH	'		10.0	0.10	700											
,	MLG0603P1N7STZ10	ĺ						İ											
	MLG0603P1N8BTZ10		1	'				†											
,	MLG0603P1N8CTZ10	1.80		'	'	9.0	0.10	70											
,	MLG0603P1N8STZ10	ĺ						İ											
	MLG0603P1N9BTZ10	Ī	1	'	'														
,	MLG0603P1N9CTZ10	1.90		'	'	9.0	0.10	60											
,	MLG0603P1N9STZ10	ĺ		'		İ													
,	MLG0603P2N0BTZ10	Ī		'		ĺ		<u> </u>											
	MLG0603P2N0CTZ10	2.00		'		8.5	0.10	60											
	MLG0603P2N0STZ10	1		'															
	MLG0603P2N1BTZ10		1	'				†											
	MLG0603P2N1CTZ10	2.10		'		8.0	0.10	60											
	MLG0603P2N1STZ10																		
	MLG0603P2N2BTZ10		1				<u> </u>	†											
	MLG0603P2N2CTZ10	2.20				7.5	0.10	60											
	MLG0603P2N2STZ10	1				1													
	MLG0603P2N3BTZ10		1	'			<u> </u>	†											
	MLG0603P2N3CTZ10	2.30		'		7.5	0.20	60											
	MLG0603P2N3STZ10			'	1	1	V												

Customer's	TDK's		ductance	L,Q	Q	S.R.F.	R.D.C.	I.D.	
Product Name	Product Name		L[nH] Tolerance	test freq. [MHz]	Min.	[GHz] Min.	[ohm] Max.	[m. Ma:	
	MLG0603P2N4BTZ10								
	MLG0603P2N4CTZ10	2.40				7.5	0.20	50	
	MLG0603P2N4STZ10	<u> </u>]						
	MLG0603P2N5BTZ10	Ţ '					Γ		
	MLG0603P2N5CTZ10	2.50				7.5	0.20	50	
	MLG0603P2N5STZ10	<u> </u>							
	MLG0603P2N6BTZ10								
	MLG0603P2N6CTZ10	2.60				7.5	0.20	50	
	MLG0603P2N6STZ10	 '	-					-	
	MLG0603P2N7BTZ10	1 2 70]	200	50	
	MLG0603P2N7CTZ10	2.70				7.5	0.20	50	
	MLG0603P2N7STZ10	 	-				ļ	 	
	MLG0603P2N8BTZ10	2 00				7.5	0.20	5.0	
	MLG0603P2N8CTZ10 MLG0603P2N8STZ10	2.80				7.5	0.20	50	
	MLG0603P2N8S1Z10 MLG0603P2N9BTZ10	 	•			7.5	0.20	-	
	MLG0603P2N9CTZ10	2.90						500	
	MLG0603P2N9STZ10	2.50					1.5	0.20	50
	MLG0603P2N9S1Z10 MLG0603P3N0BTZ10	 	1					 	
	MLG0603F3N0BTZ10	3.00				7.5	0.20	45	
	MLG0603P3N0STZ10] 5.00				1.5	0.20	10	
	MLG0603P3N1BTZ10	\vdash	1				 		
	MLG0603P3N1CTZ10	3.10				7.5	0.20	45	
	MLG0603P3N1STZ10	"	B:±0.1nH			,	V		
	MLG0603P3N2BTZ10		C:±0.2nH		14		<u> </u>	1	
	MLG0603P3N2CTZ10	3.20	S:±0.3nH			7.5	0.20	45	
	MLG0603P3N2STZ10	 							
	MLG0603P3N3BTZ10								
	MLG0603P3N3CTZ10	3.30				7.5	0.20	45	
	MLG0603P3N3STZ10	l'							
	MLG0603P3N4BTZ10								
	MLG0603P3N4CTZ10	3.40				7.0	0.20	450	
	MLG0603P3N4STZ10	<u> </u>]						
	MLG0603P3N5BTZ10	Ţ '					Γ		
	MLG0603P3N5CTZ10	3.50				6.5	0.20	45	
	MLG0603P3N5STZ10	<u> </u>	_					<u> </u>	
	MLG0603P3N6BTZ10	1 '							
	MLG0603P3N6CTZ10	3.60				6.5	0.20	40	
	MLG0603P3N6STZ10	 '	1					<u> </u>	
	MLG0603P3N7BTZ10	'							
	MLG0603P3N7CTZ10	3.70				6.5	0.20	40	
	MLG0603P3N7STZ10	 '						<u> </u>	
	MLG0603P3N8BTZ10	1 2 00					0.20	10	
	MLG0603P3N8CTZ10	3.80				5.8	0.30	40	
	MLG0603P3N8STZ10	<u> </u>	-				-	-	
	MLG0603P3N9BTZ10	2.00				- 0	0.20	1.0	
	MLG0603P3N9CTZ10	3.90		ļ		5.8	0.30	40	

		· ·	[Table 3]	1.0		CDE	D.D.G	10.												
Customer's	TDK's		ductance	L,Q	Q	S.R.F.	R.D.C.	I.D.C												
Product Name	Product Name		L[nH] Tolerance	test freq. [MHz]	Min.	[GHz] Min.	[ohm] Max.	[mA Max.												
	MI COCO2DANODTZIO	and	l	LIVITIZ		IVIIII.	wax.	IVIAA.												
	MLG0603P4N0BTZ10	4.00				5.0	0.40	2.50												
	MLG0603P4N0CTZ10	4.00				5.8	0.40	350												
	MLG0603P4N0STZ10																			
	MLG0603P4N1BTZ10	1	B:±0.1nH																	
	MLG0603P4N1CTZ10	4.10	C:±0.2nH			5.8	0.40	350												
	MLG0603P4N1STZ10		S:±0.3nH																	
	MLG0603P4N2BTZ10]																		
	MLG0603P4N2CTZ10	4.20				5.8	0.40	350												
	MLG0603P4N2STZ10																			
	MLG0603P4N3STZ10																			
	MLG0603P4N3HTZ10	4.30				5.8	0.40	350												
	MLG0603P4N3JTZ10																			
	MLG0603P4N7STZ10																			
	MLG0603P4N7HTZ10	4.70				5.5	0.40	350												
	MLG0603P4N7JTZ10																			
	MLG0603P5N1STZ10		S:±0.3nH																	
	MLG0603P5N1HTZ10	5.10	H:±3%					5.5	0.40	350										
	MLG0603P5N1JTZ10		J:±5%																	
	MLG0603P5N6STZ10																			
	MLG0603P5N6HTZ10	5.60				4.0	0.40	350												
	MLG0603P5N6JTZ10																			
	MLG0603P6N2STZ10																			
	MLG0603P6N2HTZ10	6.20		6.20 4.0 0.70		0.70	300													
	MLG0603P6N2JTZ10			500	500	500	500		1.4			1								
	MLG0603P6N8HTZ10			. 00						500	500	500	500	500	500	500	14			
	MLG0603P6N8JTZ10	6.80									4.0	0.75	300							
	MLG0603P7N5HTZ10																			
	MLG0603P7N5JTZ10	7.50				4.0	0.80	300												
	MLG0603P8N2HTZ10		1																	
	MLG0603P8N2JTZ10	8.20				4.0	0.85	250												
	MLG0603P9N1HTZ10																			
	MLG0603P9N1JTZ10	9.10				4.0	0.90	250												
	MLG0603P10NHTZ10		1																	
	MLG0603P10NJTZ10	10.0				4.0	0.95	250												
	MLG0603P11NHTZ10																			
	MLG0603P11NJTZ10	11.0	H:±3%			3.5	1.00	250												
	MLG0603P12NHTZ10		J:±5%																	
	MLG0603P12NJTZ10	12.0				3.5	1.10	250												
	MLG0603P13NHTZ10		1																	
	MLG0603P13NJTZ10	13.0				3.2	1.10	250												
	MLG0603P15NHTZ10		1																	
	MLG0603P15NJTZ10	15.0				3.2	1.20	250												
	MLG0603P16NHTZ10						<u> </u>	<u> </u>												
	MLG0603P16NJTZ10	- 16.0 3.0 1		1.20	200															
	MLG0603P18NHTZ10						 													
	MLG0603P18NJTZ10	18.0				3.0	1.40	200												
	MLG0603P20NHTZ10	-	1					 												
	141LO00031 2014111L10	20.0	1	Ī		2.2	1.90	150												

		1	[Table 3]	Ι.ο		CDE	D.D.C	LD
Customer's	TDK's	-	ductance L[nH]	L,Q test freq.	Q	S.R.F. [GHz]	R.D.C. [ohm]	I.D.C [mA
Product Name	Product Name		Tolerance	[MHz]	Min.	Min.	Max.	Max.
	MLG0603P22NHTZ10	22.0		-			1.00	150
	MLG0603P22NJTZ10	22.0		!		2.2	1.90	150
	MLG0603P24NHTZ10	24.0		'		2.2	2.10	146
	MLG0603P24NJTZ10	24.0		500	14	2.2	2.10	140
	MLG0603P27NHTZ10	27.0		300	14		2.10	1.46
	MLG0603P27NJTZ10	27.0		ļ	1	2.2	2.10	140
	MLG0603P30NHTZ10	20.0				1 0	2.20	126
	MLG0603P30NJTZ10	30.0		!		1.8	2.20	130
	MLG0603P33NHTZ10	33.0				1.8	2.20	130
	MLG0603P33NJTZ10	33.0]			1.0	2.20	1.70
	MLG0603P36NHTZ10	36.0				1.8	2.40	120
	MLG0603P36NJTZ10	50.0	1			1.0	410	1.20
	MLG0603P39NHTZ10	39.0				1.8	2.40	120
	MLG0603P39NJTZ10	<u> </u>					<u></u>	<u> </u>
	MLG0603P43NHTZ10	43.0		ļ		1.6	2.90	110
	MLG0603P43NJTZ10		4		10	ļ	<u> </u>	<u> </u>
	MLG0603P47NHTZ10				1	1.6	2.90	110
	MLG0603P47NJTZ10	 '	11. + 20/	ļ			 	
	MLG0603P51NHTZ10 MLG0603P51NJTZ10	51.0	H:±3% J:±5%	ļ		1.4	3.50	100
	MLG0603P56NHTZ10	 '	3.4070	ļ			<u> </u>	+
	MLG0603P56NJTZ10	56.0				1.4	3.50	100
	MLG0603F30NJ1Z10 MLG0603P62NHTZ10	—	1			<u> </u>	 	
	MLG0603P62NH1Z10 MLG0603P62NJTZ10	62.0		300		1.2	3.50	100
	MLG0603P68NHTZ10	 '	1			 	<u> </u>	-
	MLG0603P68NJTZ10	68.0				1.2	3.50	100
	MLG0603P68NJ1Z10 MLG0603P75NHTZ10	 '	1				<u> </u>	-
	MLG0603P75NH1Z10 MLG0603P75NJTZ10	75.0				1.0	4.00	80
	MLG0603P73NJ1Z10 MLG0603P82NHTZ10	 '	1	ļ			<u> </u>	+
	MLG0603P82NJTZ10	82.0				1.0	4.00	80
	MLG0603P91NHTZ10	<u> </u>	1				 	
	MLG0603P91NJTZ10	91.0			9	0.9	4.50	80
·	MLG0603PR10HTZ10	100					1.50	
	MLG0603PR10JTZ10	100				0.9	4.50	80
	MLG0603PR11HTZ10	110				0.0	5.00	9.0
	MLG0603PR11JTZ10	110				0.8	5.00	80
	MLG0603PR12HTZ10	120				0.8	5.00	80
	MLG0603PR12JTZ10	120		'		0.0	3.00	00

	[Table 4	-	
TDK's		ity Spec.	L,Q Test freq.
Product Name	Inductance L[nH]	Q	[MHz]
MLG0603P0N6			
MLG0603P0N7			
MLG0603P0N8		-	
MLG0603P0N9			
MLG0603P1N0			
MLG0603P1N1			
MLG0603P1N2			
MLG0603P1N3			
MLG0603P1N4			
MLG0603P1N5			
MLG0603P1N6			
MLG0603P1N7	_		
MLG0603P1N8			
MLG0603P1N9	_		
MLG0603P2N0	_		
MLG0603P2N1	_		
MLG0603P2N2			
MLG0603P2N3			
MLG0603P2N4	4		
MLG0603P2N5	_		
MLG0603P2N6 MLG0603P2N7	_		
MLG0603F2N7 MLG0603P2N8	Initial Value±0.3nH		500
MLG0603F2N9	-		
MLG0603P3N0	-	Initial Value±30%	
MLG0603P3N1	-		
MLG0603P3N2	-		
MLG0603P3N3	=		
MLG0603P3N4			
MLG0603P3N5	=		
MLG0603P3N6			
MLG0603P3N7	7		
MLG0603P3N8	7		
MLG0603P3N9			
MLG0603P4N0	7		
MLG0603P4N1	1		
MLG0603P4N2	1		
MLG0603P4N3	†		
	-		
MLG0603P4N7	-		
MLG0603P5N1	_		
MLG0603P5N6			
MLG0603P6N2			

	[Table 4]		
TDK's	Reliabil	ity Spec.	L,Q
Product Name	Inductance L[nH]	Q	Test freq. [MHz]
MLG0603P6N8			
MLG0603P7N5			
MLG0603P8N2			
MLG0603P9N1			
MLG0603P10N			
MLG0603P11N			
MLG0603P12N			
MLG0603P13N			500
MLG0603P15N			300
MLG0603P16N			
MLG0603P18N			
MLG0603P20N			
MLG0603P22N			
MLG0603P24N			
MLG0603P27N	Initial Value±5%	Initial Value±30%	
MLG0603P30N	initiai vaiue±5%	initiai vaiue±30%	
MLG0603P33N			
MLG0603P36N			
MLG0603P39N			
MLG0603P43N			
MLG0603P47N			
MLG0603P51N	_		
MLG0603P56N	-		200
MLG0603P62N	-		300
MLG0603P68N	-		
MLG0603P75N	-		
MLG0603P82N MLG0603P91N	-		
MLG0603P91N MLG0603PR10	-		
MLG0603PR10	-		
MLG0603PR12	-		
WILGUOUSFK12	<u> </u>	<u> </u>	1

4-1) Inductance and Q values

4-1-1) Test equipment and test fixture

Test equipment: IMPEDANCE ANALYZER 4291A HP (or equivalent)

Test fixture: 16197A Agilent (or equivalent) *Residual inductance of short bar = 0.43nH

4-1-2) Test method

Set the chip on test fixture. Test frequency is due to Table 3.

4-2) Direct Current Resistance (R.D.C.)

4-2-1) Test equipment

Test equipment: DEGITAL MILLIOHM METER Type7561 YOKOGAWA

(or equivalent)

4-3) Self Resonance Frequency (S.R.F.)

4-3-1) Test equipment

Test equipment: 8720C HP (or equivalent)

4-3-2) Test method

Self resonance frequency is "Frequency that phase becomes 0 degree" that means switching frequency between inductive reactance and capacitive reactance when measure attenuation with transmission characteristic measurement.

4-4) RATED CURRENT

4-4-1) Temperature Rise

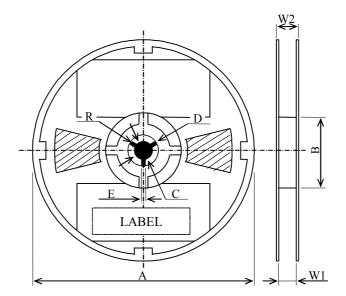
Rated current is the current which causes a temperature rise within 20°C.

No.	Item	Specification	Test method
5-1	Adhesive test	2N min.	Add the force to solder specimen inductor on the test printed circuit board.
			Pressure
			[Figure 2]
5-2	Vibration test	Appearance : No mechanical damage. To satisfy reliability spec.(Table 4)	Solder specimen inductor on the test printed circ board. Apply vibrations in each of the x, y and z directions for 2 hours (total of 6 hours). REF: JIS-C-0040 Frequency: 10 - 500 - 10Hz Total amplitude: 1.5mm
5-3	Shock test	Ditto	Solder specimen inductor on the test printed circuit board. Acceleration 1000m/s ² , action time 6ms, half wave sine 6×3.
5-4	Cold test	Ditto	Solder specimen inductor on the test printed circ board, then leave it at temperature for -55±2°C for 500±12hours. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.
5-5	Heat shock test	Ditto	Solder specimen inductor on the test printed circ board, then go through 100 cycles under the following conditions. +125°C Normal temperature -55°C 30min 30min 30min [Figure 3] 1cycle Measure the test items after leaving the inductor room temperature and humidity for 1 to 2 hours.

		[Table 5]	
No.	Item	Specification	Test method
5-6	Humidity with load test	1	Solder specimen inductor on the test printed circuit board, then leave it at temperature for 60±2°C for 500±12hours, and relative humidity of 90% to 95% with the rated electric current applied. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.
5-7	High temperature with load test	Ditto	Solder specimen inductor on the test printed circuit board, then leave it at temperature for 125±2°C for 500±12hours with the rated electric current applied. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.
5-8	Resistance to soldering heat test	Appearance : No mechanical damage.	Solder specimen inductor on the test printed circuit board, then pass it 2 times under conditions. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours. Solder: Sn-3Ag-0.5Cu. 260+/-5°C 10 sec. 230+/-5°C 30-60sec [Figure4]
5-9	Solderability test	Terminal electrodes should be covered by new solder to a minimum of 95%	Apply flux application and preheat for 1 to 2 minutes at 150°C to 180°C, then dip in solder at 250~260°C for 4.0±0.5 seconds. Flux: Rosin (JIS-K-5902) dissolved in Isopropyl alcohol (JIS-K-8839) at 25 wt %. Solder: Sn-3Ag-0.5Cu.

6. PACKAGING 12

6-1) Reel dimension



*) Shaded portion is hole

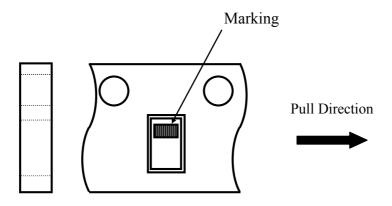
Material of reel: Polystyrene

[Figure 5]

			(Unit: mm)		
Mark	A	В	С	D	E
Dimension	Ф180.0±2.0	Ф60.0 Min.	Ф13.0±0.2	Ф21.0±0.8	2.0±0.5
Mark	W1	W2	R		
Dimension	8.4 +2.0/0	14.4 Max.	1.0		

6-2) Marking

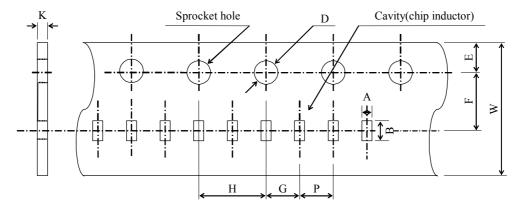
The marking shall be seen from the top cover tape side.



[Figure 6]

6. PACKAGING

6-3) Tape dimension

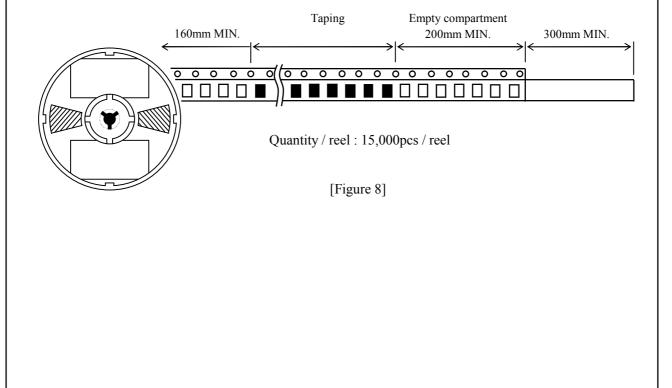


Material of carrier tape : paper Material of cover tape : polyester

[Figure 7]

	(unit: mm)				
Mark	A	В	D	E	F
Dimension	0.38±0.05	0.68±0.05	Φ1.50+0.10 0	1.75±0.10	3.50±0.05
Mark	G	Н	K	P	W
Dimension	2.00±0.05	4.00±0.10	0.50 MAX	2.00±0.05	8.00±0.30

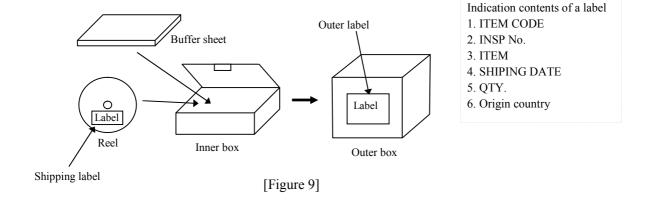
6-4) Shape of packing



6. PACKAGING

6-5) Packing form and indication contents

(For example)



*) In case of Japanese domestic shipping, Outer label is put on the Inner box. Because Outer box isn't used.

6-6) Peel back force

Peel back force is 0.1N to 1.0N in accordance with JIS C 0806.

6-7) Storage conditions

After delivered, use the products within 12 months under the conditions 5 to 40 °C and 10 to 75%RH. Solderability should be confirmed in case of exceeding 12 months.

7. OTHERS 15

- 7-1) Operating / Storage temperature range -55 to +125°C
- 7-2) Humidity range

0 to 90%ŘH (The least upper wet-bulb temperature is 38°C)

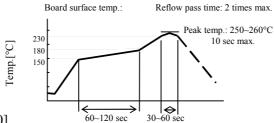
7-3) Product identification

MLG	0603	<u>P</u>	<u>27N</u>	<u>J</u>	<u>#</u>	***
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Product symbol
- (2) Dimensions $(0.6 \times 0.3 \text{mm})$
- (3) Series name
- (4) Inductance (27N: 27nH)
- (5) Inductance Tolerance (B: ± 0.1 nH, C: ± 0.2 nH, S: ± 0.3 nH, G: $\pm 2\%$, H: $\pm 3\%$, J: $\pm 5\%$)
- (6) Packing style (T: taping)
- (7) Control number

7-4) Precautions

7-4-1) Recommended reflow soldering conditions.

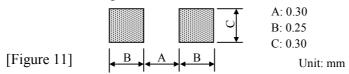


[Figure 10]

7-4-2) Reworking condition

By using spot heater, in a temperature 350 °C max, more than a distance 3mm from the product within 5 seconds.

7-4-3) Recommended land pattern



7-3-4) Recommended cleaning conditions after soldering.

Recommended rinse agent is IPA (Isopropyl alcohol).

If use other agent, confirm soldering conditions in person.

Ultrasonic cleaning shall be in the normal temperature 20W/l max., 28kHz ~ 40kHz, 5 minute max.

7. OTHERS

7 5) This product contains no read and also support read free soldering.	7-5)	This product contains no lead and also support lead-free soldering.	
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- 7-6) This product corresponds to ROHS. It contains neither Cd, Pb, Hg, Cr6+, PBB nor PBDE.
- 7-7) MSL MSL is in accordance with Level-1
- 7-8) Appearance

(1)Applied standard/Sampling inspection JIS Z 9015

Single normal sampling / LV-II

(2)Shipment standard

Major defect (*1): AQL 0.1 Minor defect (*2): AQL 0.4

^{*1:}Its appearance condition makes an effect on electrical characteristics that we assure.

^{*2:}Its appearance condition does not make an effect on electrical characteristics that we assure.

单击下面可查看定价,库存,交付和生命周期等信息

>>TDK Corporation(东电化)