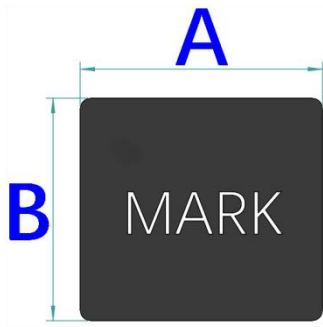


SMT shielded Power Inductors

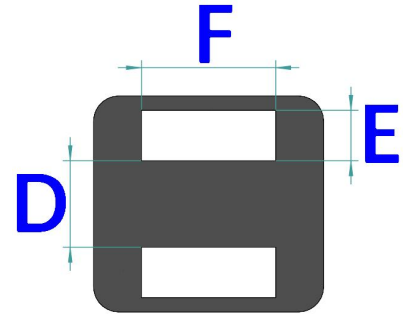
FRONT VIEW



SIDE VIEW



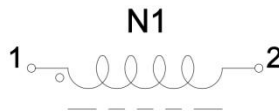
BOTTOM VIEW



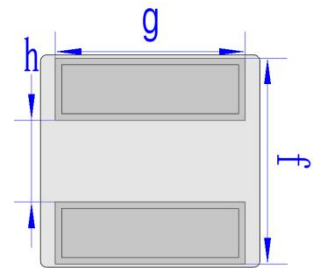
APPEARANCE DRAWING



SCHEMATIC



RECOMMEND PC BOARD PATTERN



◆ Product Identification

—NGXGL3012D — —
1 2 3

(Ex. NGXGL3012D-NGXGL1010D)

1—SMT shielded Power Inductors

2—Inductance

3—Tolerance (K:10%, L:15%, M:20%, N:30%)

◆ Applications

- Note PC power system, incl. IMVP-6
- DC/DC Converters, etc.

◆ Introduction

- Soft saturation.
- High current, low DCR, high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- High reliability.
- 100% Lead(Pb)-Free and RoHS compliant.
- Operating temperature -40°C ~ $+125^{\circ}\text{C}$ (Including self-temperature rise)

◆ Dimensions

Unit: mm

Type	A	B	C	D	E	F	f	g	h
NGXGL3012D	3.20±0.20	3.00±0.20	1.20MAX	1.20 ±0.20	0.70±0.20	3.20Typ	3.15Typ.	3.40Typ.	1.00Typ.
NGXGL4015D	4.20±0.20	4.20±0.20	1.60 MAX	1.40 ±0.20	1.20±0.20	4.20Typ	4.30Typ.	4.40Typ.	1.20Typ.
NGXGL4020D	4.20±0.20	4.20±0.20	2.10 MAX	1.40 ±0.20	1.20±0.20	4.20Typ	4.30Typ.	4.40Typ.	1.20Typ.
NGXGL4030D	4.20±0.20	4.20±0.20	3.10 MAX	1.40 ±0.20	1.20±0.20	4.20Typ	4.30Typ.	4.40Typ.	1.20Typ.
NGXGL5020D	5.30±0.20	5.10±0.20	2.10 MAX	2.00 ±0.20	1.40±0.20	5.30Typ	5.50Typ.	5.70Typ.	1.70Typ.
NGXGL5027D	5.30±0.20	5.10±0.20	2.70 MAX	2.00 ±0.20	1.40±0.20	5.30Typ	5.50Typ.	5.70Typ.	1.70Typ.
NGXGL5030D	5.30±0.20	5.10±0.20	3.10 MAX	2.00 ±0.20	1.40±0.20	5.30Typ	5.50Typ.	5.70Typ.	1.70Typ.
NGXGL5050D	5.30±0.20	5.10±0.20	5.10 MAX	2.00 ±0.20	1.40±0.20	5.30Typ	5.50Typ.	5.70Typ.	1.70Typ.
NGXGL6015D	6.60±0.20	6.40±0.20	1.60 MAX	2.50 ±0.30	1.90±0.20	6.60Typ	6.80Typ.	7.00Typ.	2.30Typ.
NGXGL6024D	6.60±0.20	6.40±0.20	2.40 MAX	2.50±0.30	1.90±0.20	6.60 Typ	6.80 Typ	7.00 Typ	2.30 Typ.
NGXGL6030D	6.60±0.20	6.40±0.20	3.10 MAX	2.50 ±0.30	1.90±0.20	6.60Typ	6.80Typ.	7.00Typ.	2.30Typ.
NGXGL6040D	6.60±0.20	6.40±0.20	4.00 MAX	2.50 ±0.30	1.90±0.20	6.60Typ	6.80Typ.	7.00Typ.	2.30Typ.
NGXGL6050D	6.60±0.20	6.40±0.20	5.10 MAX	2.50 ±0.30	1.90±0.20	6.60Typ	6.80Typ.	7.00Typ.	2.30Typ.
NGXGL6060D	6.60±0.20	6.40±0.20	6.10 MAX	2.85 ±0.30	1.40±0.20	5.30Typ	6.50Typ.	6.80Typ.	2.50Typ.
NGXGL7017D	7.80±0.20	7.80±0.20	1.80 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7020D	7.80±0.20	7.80±0.20	2.10 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7025D	7.80±0.20	7.80±0.20	2.50 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7030D	7.80±0.20	7.80±0.20	3.10 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7040D	7.80±0.20	7.80±0.20	4.10 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7050D	7.80±0.20	7.80±0.20	5.10 MAX	2.80 ±0.30	2.40±0.20	7.80Typ	8.00Typ.	8.20Typ.	2.50Typ.
NGXGL7070D	7.80±0.20	7.80±0.20	7.10 MAX	3.80 ±0.30	1.60±0.20	6.50Typ	7.00Typ.	7.00Typ.	3.50Typ.
NGXGL1030D	11.6±0.20	10.5±0.20	3.10 MAX	4.45±0.30	2.20±0.20	9.50Typ	9.00Typ.	10.00Typ.	4.00Typ.
NGXGL1040D	11.6±0.20	10.5±0.20	4.10 MAX	4.45±0.30	2.20±0.20	9.50Typ	9.00Typ.	10.00Typ.	4.00Typ.
NGXGL1060D	11.6±0.20	10.5±0.20	6.10 MAX	4.45±0.30	2.20±0.20	9.50Typ	9.00Typ.	10.00Typ.	4.00Typ.
NGXGL1010D	11.6±0.20	10.5±0.20	10.0 MAX	4.45±0.30	2.20±0.20	9.50Typ	9.00Typ.	10.00Typ.	4.00Typ.

◆ Design as Customer' s Requested Specifications.

◆ Electrical Characteristics

NGXGL3012D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	I _{rms} 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL3012D-R22M	0.22	±20%	1MHz/0.1V	5.80	6.50	8.00	7.20	7.20	R22
NGXGL3012D-R47M	0.47	±20%	1MHz/0.1V	11.2	12.5	6.00	5.40	5.40	R47
NGXGL3012D-R68M	0.68	±20%	1MHz/0.1V	13.5	15.5	5.50	5.00	5.00	R68

◆ Electrical Characteristics

NGXGL4015D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	I _{rms} 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL4015D-R33M	0.33	±20%	1MHz/0.1V	4.90	5.50	11.5	10.5	10.3	R33
NGXGL4015D-R47M	0.47	±20%	1MHz/0.1V	6.15	6.80	10.8	10.3	10.3	R47
NGXGL4015D-R68M	0.68	±20%	1MHz/0.1V	8.10	8.90	8.80	8.30	8.30	R68
NGXGL4015D-R82M	0.82	±20%	1MHz/0.1V	11.2	12.5	8.10	7.60	7.60	R82
NGXGL4015D-1R0M	1.00	±20%	1MHz/0.1V	13.3	14.8	7.50	7.00	7.00	1R0

◆ Electrical Characteristics

NGXGL4020D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	I _{rms} 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL4020D-47NM	0.047	±20%	1MHz/0.1V	1.05	1.20	50.0	45.0	38.0	47N
NGXGL4020D-R10M	0.10	±20%	1MHz/0.1V	1.75	1.95	35.0	32.0	24.8	R10
NGXGL4020D-R22M	0.22	±20%	1MHz/0.1V	2.50	3.00	22.0	20.0	19.8	R22
NGXGL4020D-R33M	0.33	±20%	1MHz/0.1V	3.10	3.50	16.1	15.2	16.1	R33
NGXGL4020D-R47M	0.47	±20%	1MHz/0.1V	4.10	4.60	13.4	11.5	13.4	R47
NGXGL4020D-R56M	0.56	±20%	1MHz/0.1V	5.10	5.70	10.2	9.80	10.5	R56
NGXGL4020D-R68M	0.68	±20%	1MHz/0.1V	5.60	6.40	10.2	9.80	10.5	R68
NGXGL4020D-R82M	0.82	±20%	1MHz/0.1V	6.50	7.50	9.30	8.80	9.30	R82
NGXGL4020D-1R0M	1.00	±20%	1MHz/0.1V	7.90	8.80	8.80	8.20	8.80	1R0
NGXGL4020D-1R2M	1.20	±20%	1MHz/0.1V	9.50	10.5	8.20	7.80	8.20	1R2
NGXGL4020D-1R5M	1.5	±20%	1MHz/0.1V	12.4	13.6	7.90	7.50	7.90	1R5
NGXGL4020D-2R2M	2.2	±20%	1MHz/0.1V	21.1	22.5	7.10	6.40	7.10	2R2
NGXGL4020D-3R3M	3.3	±20%	1MHz/0.1V	28.5	32.0	5.40	4.70	4.70	3R3
NGXGL4020D-4R7M	4.7	±20%	1MHz/0.1V	28.5	47.0	4.50	4.10	4.10	4R7

◆ Electrical Characteristics

NGXGL4030D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL4030D-R10M	0.10	±20%	1MHz/0.1V	1.45	1.65	35.0	30.0	25.8	R10
NGXGL4030D-R33M	0.33	±20%	1MHz/0.1V	2.80	3.10	20.0	18.0	16.5	R33
NGXGL4030D-R47M	0.47	±20%	1MHz/0.1V	3.15	3.50	18.0	16.5	16.2	R47
NGXGL4030D-R56M	0.56	±20%	1MHz/0.1V	4.10	4.50	14.0	12.3	14.0	R56
NGXGL4030D-R68M	0.68	±20%	1MHz/0.1V	4.50	5.00	12.5	11.5	12.5	R68
NGXGL4030D-R82M	0.82	±20%	1MHz/0.1V	5.85	6.50	11.8	10.5	11.8	R82
NGXGL4030D-1R0M	1.00	±20%	1MHz/0.1V	6.40	7.10	11.8	10.5	11.8	1R0
NGXGL4030D-1R2M	1.20	±20%	1MHz/0.1V	8.10	9.00	10.5	9.80	10.5	1R2
NGXGL4030D-1R5M	1.50	±20%	1MHz/0.1V	8.60	9.50	9.60	8.90	9.60	1R5
NGXGL4030D-2R2M	2.20	±20%	1MHz/0.1V	13.0	14.5	8.10	7.30	8.10	2R2
NGXGL4030D-3R3M	3.30	±20%	1MHz/0.1V	18.5	20.5	6.80	6.10	5.80	3R3
NGXGL4030D-4R7M	4.70	±20%	1MHz/0.1V	27.5	31.0	5.50	5.00	5.50	4R7
NGXGL4030D-6R8M	6.80	±20%	1MHz/0.1V	42.5	47.5	4.80	4.30	4.30	6R8

◆ Electrical Characteristics

NGXGL5020D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL5020D-R36M	0.36	±20%	1MHz/0.1V	3.05	3.40	25.0	21.0	19.0	R36
NGXGL5020D-R56M	0.56	±20%	1MHz/0.1V	4.70	5.20	18.8	16.5	16.2	R56
NGXGL5020D-R68M	0.68	±20%	1MHz/0.1V	5.50	6.10	15.2	13.8	13.5	R68
NGXGL5020D-R80M	0.80	±20%	1MHz/0.1V	6.15	6.80	14.0	12.5	12.2	R80
NGXGL5020D-1R0M	1.00	±20%	1MHz/0.1V	7.85	8.70	12.0	10.5	10.2	1R0
NGXGL5020D-1R2M	1.20	±20%	1MHz/0.1V	9.30	10.3	10.0	9.00	8.70	1R2
NGXGL5020D-1R5M	1.50	±20%	1MHz/0.1V	11.8	13.2	8.90	8.05	7.80	1R5
NGXGL5020D-2R2M	2.20	±20%	1MHz/0.1V	17.0	18.8	7.60	6.85	6.50	2R2

◆ Electrical Characteristics

NGXGL5027D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL5027D-1R5M	1.50	±20%	1MHz/0.1V	8.75	9.70	12.5	11.0	10.7	1R5

◆ Electrical Characteristics

NGXGL5030D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL5030D-R22M	0.22	±20%	1MHz/0.1V	2.25	2.50	31.0	28.0	25.0	R22
NGXGL5030D-R33M	0.33	±20%	1MHz/0.1V	2.65	2.85	28.0	26.5	24.0	R33
NGXGL5030D-R56M	0.56	±20%	1MHz/0.1V	2.90	3.20	24.0	20.0	18.5	R56
NGXGL5030D-R68M	0.68	±20%	1MHz/0.1V	1.05	4.50	21.0	18.9	18.0	R68
NGXGL5030D-R80M	0.80	±20%	1MHz/0.1V	4.50	4.95	18.5	16.5	16.2	R80
NGXGL5030D-1R0M	1.00	±20%	1MHz/0.1V	5.30	5.80	15.5	14.0	13.7	1R0
NGXGL5030D-1R2M	1.20	±20%	1MHz/0.1V	6.80	7.50	13.8	12.8	12.5	1R2
NGXGL5030D-1R5M	1.5	±20%	1MHz/0.1V	8.10	9.00	12.9	11.8	11.6	1R5
NGXGL5030D-2R2M	2.20	±20%	1MHz/0.1V	11.2	12.5	11.5	10.5	10.2	2R2
NGXGL5030D-3R3M	3.30	±20%	1MHz/0.1V	16.5	18.9	9.00	8.20	7.90	3R3
NGXGL5030D-4R7M	4.70	±20%	1MHz/0.1V	22.5	25.0	7.00	6.30	6.00	4R7

◆ Electrical Characteristics

NGXGL5050D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL5050D-2R8M	2.80	±20%	1MHz/0.1V	8.50	9.80	9.80	8.85	9.80	2R8
NGXGL5050D-4R7M	4.70	±20%	1MHz/0.1V	14.3	15.8	7.20	6.50	6.20	4R7
NGXGL5050D-5R6M	5.60	±20%	1MHz/0.1V	17.3	19.2	6.40	5.80	5.77	5R6
NGXGL5050D-6R8M	6.80	±20%	1MHz/0.1V	20.1	22.5	6.20	5.60	5.57	6R8
NGXGL5050D-8R2M	8.20	±20%	1MHz/0.1V	24.3	27.0	5.80	5.30	5.27	8R2
NGXGL5050D-100M	10.0	±20%	1MHz/0.1V	38.5	43.0	5.40	4.80	4.50	100
NGXGL5050D-150M	15.0	±20%	1MHz/0.1V	48.5	54.0	4.10	3.70	3.40	150

◆ Electrical Characteristics

NGXGL6015D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6015D-R15M	0.15	±20%	1MHz/0.1V	2.25	2.50	27.5	25.0	21.0	R15
NGXGL6015D-R28M	0.28	±20%	1MHz/0.1V	3.60	4.00	26.5	23.0	20.0	R28
NGXGL6015D-R33M	0.33	±20%	1MHz/0.1V	3.60	4.00	18.0	16.0	15.7	R33
NGXGL6015D-1R0M	1.00	±20%	1MHz/0.1V	9.50	10.5	12.0	10.0	9.70	1R0

◆ Electrical Characteristics

NGXGL6020D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6020D-R12M	0.12	±20%	1MHz/0.1V	1.15	1.30	55.0	48.0	38.5	R12
NGXGL6020D-R15M	0.15	±20%	1MHz/0.1V	1.25	1.40	48.0	42.0	38.0	R15
NGXGL6020D-R22M	0.22	±20%	1MHz/0.1V	1.90	2.10	35.5	32.0	30.0	R22
NGXGL6020D-R45M	0.45	±20%	1MHz/0.1V	3.40	3.80	24.5	22.1	21.8	R45
NGXGL6020D-R90M	0.90	±20%	1MHz/0.1V	5.85	6.50	16.5	15.0	14.7	R90
NGXGL6020D-1R1M	1.10	±20%	1MHz/0.1V	8.80	9.85	15.5	13.5	13.2	1R1
NGXGL6020D-1R5M	1.50	±20%	1MHz/0.1V	9.90	11.0	13.2	12.0	11.4	1R5

◆ Electrical Characteristics

NGXGL6024D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6024D-3R0M	3.00	±20%	1MHz/0.1V	15.5	17.5	9.00	8.20	7.00	3R0

◆ Electrical Characteristics

NGXGL6030D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6030D-R18M	0.18	±20%	1MHz/0.1V	1.60	1.75	40.0	36.0	35.0	R18
NGXGL6030D-R22M	0.22	±20%	1MHz/0.1V	1.80	2.00	35.0	31.5	30.0	R22
NGXGL6030D-R33M	0.33	±20%	1MHz/0.1V	2.30	2.50	31.0	27.0	26.7	R33
NGXGL6030D-R47M	0.47	±20%	1MHz/0.1V	2.40	2.70	30.0	25.0	24.7	R47
NGXGL6030D-R68M	0.68	±20%	1MHz/0.1V	3.10	3.50	26.0	22.5	22.2	R68
NGXGL6030D-R82M	0.82	±20%	1MHz/0.1V	3.80	4.20	24.0	21.0	20.7	R82
NGXGL6030D-1R0M	1.00	±20%	1MHz/0.1V	4.75	5.30	22.6	17.8	17.5	1R0
NGXGL6030D-1R2M	1.20	±20%	1MHz/0.1V	5.60	6.50	21.5	15.9	15.6	1R2
NGXGL6030D-1R5M	1.50	±20%	1MHz/0.1V	6.80	7.50	16.5	15.1	14.8	1R5
NGXGL6030D-1R8M	1.80	±20%	1MHz/0.1V	8.60	9.50	15.5	13.0	12.7	1R8
NGXGL6030D-2R2M	2.20	±20%	1MHz/0.1V	9.70	10.8	15.0	12.5	12.2	2R2
NGXGL6030D-3R3M	3.30	±20%	1MHz/0.1V	14.3	15.8	14.5	11.0	10.8	3R3
NGXGL6030D-4R7M	4.70	±20%	1MHz/0.1V	21.2	23.5	10.5	9.50	9.20	4R7

◆ Electrical Characteristics

NGXGL6040D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6040D-3R0M	3.00	±20%	1MHz/0.1V	8.30	9.20	15.0	13.5	13.2	3R0

◆ Electrical Characteristics

NGXGL6050D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6050D-1R5M	1.50	±20%	1MHz/0.1V	5.00	5.50	20.0	18.0	17.7	1R5
NGXGL6050D-1R8M	1.80	±20%	1MHz/0.1V	5.70	6.30	18.5	16.5	16.2	1R8
NGXGL6050D-2R2M	2.20	±20%	1MHz/0.1V	5.80	6.50	16.0	14.5	14.2	2R2
NGXGL6050D-3R3M	3.30	±20%	1MHz/0.1V	8.55	9.50	14.0	12.0	11.7	3R3
NGXGL6050D-4R7M	4.70	±20%	1MHz/0.1V	13.0	14.5	11.5	10.0	9.70	4R7
NGXGL6050D-5R6M	5.60	±20%	1MHz/0.1V	13.5	14.8	10.5	9.50	9.20	5R6
NGXGL6050D-6R8M	6.80	±20%	1MHz/0.1V	16.5	18.5	10.2	9.20	8.90	6R8
NGXGL6050D-8R2M	8.20	±20%	1MHz/0.1V	20.5	22.5	9.50	8.50	8.30	8R2
NGXGL6050D-100M	10.0	±20%	1MHz/0.1V	23.5	26.5	8.50	7.80	7.50	100

◆ Electrical Characteristics

NGXGL6060D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL6060D-3R3M	3.30	±20%	1MHz/0.1V	7.50	8.50	15.4	14.0	13.7	3R3
NGXGL6060D-4R7M	4.70	±20%	1MHz/0.1V	10.5	11.5	13.5	12.0	11.7	4R7
NGXGL6060D-5R6M	5.60	±20%	1MHz/0.1V	13.4	14.8	11.5	10.5	10.2	5R6
NGXGL6060D-6R8M	6.80	±20%	1MHz/0.1V	16.2	18.0	10.4	9.60	9.30	6R8
NGXGL6060D-8R2M	8.20	±20%	1MHz/0.1V	20.5	22.5	9.50	8.60	8.57	8R2
NGXGL6060D-100M	10.00	±20%	1MHz/0.1V	22.8	25.4	8.40	7.60	7.30	100
NGXGL6060D-120M	12.00	±20%	1MHz/0.1V	25.5	28.5	7.80	7.10	7.00	120
NGXGL6060D-150M	15.00	±20%	1MHz/0.1V	33.5	37.5	6.60	6.00	5.70	150
NGXGL6060D-220M	22.00	±20%	1MHz/0.1V	42.5	47.5	5.70	5.10	4.70	220

◆ Electrical Characteristics

NGXGL7017D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7017D-R68M	0.68	±20%	1MHz/0.1V	6.15	6.80	20.0	18.0	17.7	R68
NGXGL7017D-R90M	0.90	±20%	1MHz/0.1V	8.10	8.90	18.0	16.0	15.7	R90
NGXGL7017D-1R5M	1.50	±20%	1MHz/0.1V	11.3	12.5	14.5	13.0	12.7	1R5

◆ Electrical Characteristics

NGXGL7020D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7020D-R15M	0.15	±20%	1MHz/0.1V	1.70	1.90	46.0	42.0	35.0	R15
NGXGL7020D-R68M	0.68	±20%	1MHz/0.1V	5.50	6.20	22.3	20.1	19.8	R68
NGXGL7020D-R82M	0.82	±20%	1MHz/0.1V	5.85	6.50	22.0	20.0	19.7	R82
NGXGL7020D-1R0M	1.00	±20%	1MHz/0.1V	6.55	7.20	18.0	16.5	16.2	1R0
NGXGL7020D-1R2M	1.20	±20%	1MHz/0.1V	8.80	9.80	17.6	15.8	15.5	1R2
NGXGL7020D-1R5M	1.50	±20%	1MHz/0.1V	13.5	15.0	15.0	13.5	13.2	1R5
NGXGL7020D-2R2M	2.20	±20%	1MHz/0.1V	12.00	14.40	13.6	12.8	10.5	2R2

Electrical Characteristics

NGXGL7025D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7025D-2R2M	2.20	±20%	1MHz/0.1V	9.00	10.20	18.6	16.8	15.5	2R2

◆ Electrical Characteristics

NGXGL7030D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7030D-R30M	0.30	±20%	1MHz/0.1V	1.65	1.90	46.0	41.0	35.5	R30
NGXGL7030D-R47M	0.47	±20%	1MHz/0.1V	2.20	2.40	36.5	32.8	32.5	R47
NGXGL7030D-R60M	0.60	±20%	1MHz/0.1V	2.55	2.80	36.0	32.5	32.2	R60
NGXGL7030D-1R0M	1.00	±20%	1MHz/0.1V	3.50	3.80	28.0	25.0	24.7	1R0
NGXGL7030D-1R2M	1.20	±20%	1MHz/0.1V	4.10	4.50	25.0	22.5	22.2	1R2
NGXGL7030D-1R5M	1.50	±20%	1MHz/0.1V	5.80	6.50	23.5	21.0	20.7	1R5
NGXGL7030D-2R2M	2.20	±20%	1MHz/0.1V	8.10	9.00	18.0	16.5	16.2	2R2
NGXGL7030D-3R3M	3.30	±20%	1MHz/0.1V	12.2	13.5	12.8	11.5	11.2	3R3
NGXGL7030D-4R7M	4.70	±20%	1MHz/0.1V	15.8	17.5	10.5	9.50	9.20	4R7
NGXGL7030D-5R6M	5.60	±20%	1MHz/0.1V	18.5	20.5	10.2	9.20	8.90	5R6
NGXGL7030D-6R8M	6.80	±20%	1MHz/0.1V	25.5	28.5	9.50	8.60	8.30	6R8

◆ Electrical Characteristics

NGXGL7040D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXFL7040D-2R2MRP	2.2	±20%	1MHz/0.1V	5.5	6.6	24.0	20.0	20.0	2R2
NGXFL7040D-3R3MRP	3.3	±20%	1MHz/0.1V	9.0	10.8	15.0	12.5	12.5	3R3
NGXFL7040D-4R7MRP	4.7	±20%	1MHz/0.1V	12.0	14.4	12.6	10.5	10.5	4R7

◆ Electrical Characteristics

NGXGL7050D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7050D-2R2M	2.2	±20%	1MHz/0.1V	5.50	6.10	25.0	23.0	22.0	2R2
NGXGL7050D-4R7M	4.7	±20%	1MHz/0.1V	9.20	11.20	19.0	18.0	16.0	4R7
NGXGL7050D-100M	10	±20%	1MHz/0.1V	20.50	23.50	16.00	13.8	12.5	100

◆ Electrical Characteristics

NGXGL7070D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL7070D-2R2M	2.20	±20%	1MHz/0.1V	4.85	5.40	20.0	18.0	17.7	2R2
NGXGL7070D-3R3M	3.30	±20%	1MHz/0.1V	5.85	6.50	19.5	17.8	17.5	3R3

◆ Electrical Characteristics

NGXGL1030D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL1030D-1R0M	1.00	±20%	1MHz/0.1V	2.60	2.90	30.0	27.0	26.7	1R0
NGXGL1030D-1R5M	1.50	±20%	1MHz/0.1V	4.10	4.50	25.0	22.5	22.0	1R5

◆ Electrical Characteristics

NGXGL1040D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL1040D-2R2M	2.20	±20%	1MHz/0.1V	4.30	4.80	25.5	23.0	22.7	2R2
NGXGL1040D-3R3M	3.30	±20%	1MHz/0.1V	6.10	6.75	18.0	16.5	16.2	3R3
NGXGL1040D-4R7M	4.70	±20%	1MHz/0.1V	10.5	12.0	13.5	12.0	11.5	4R7

◆ Electrical Characteristics

NGXGL1060D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL1060D-1R0M	1.00	±20%	1MHz/0.1V	1.75	1.95	48.0	43.2	40.0	1R0
NGXGL1060D-1R2M	1.20	±20%	1MHz/0.1V	1.90	2.10	40.0	36.0	35.0	1R2
NGXGL1060D-1R5M	1.50	±20%	1MHz/0.1V	2.25	2.50	36.0	32.5	32.0	1R5
NGXGL1060D-2R2M	2.20	±20%	1MHz/0.1V	3.20	3.50	30.0	27.5	27.2	2R2
NGXGL1060D-3R3M	3.30	±20%	1MHz/0.1V	4.60	5.10	26.0	23.5	23.2	3R3
NGXGL1060D-4R7M	4.70	±20%	1MHz/0.1V	6.20	6.85	22.5	20.5	20.2	4R7
NGXGL1060D-5R6M	5.60	±20%	1MHz/0.1V	7.10	7.85	19.7	17.8	17.5	5R6
NGXGL1060D-6R8M	6.80	±20%	1MHz/0.1V	7.70	8.50	18.5	16.8	16.5	6R8
NGXGL1060D-8R2M	8.20	±20%	1MHz/0.1V	12.1	13.5	16.9	15.2	15.0	8R2
NGXGL1060D-220M	22.00	±20%	1MHz/0.1V	31.5	35.0	10.0	9.00	8.70	220

◆ Electrical Characteristics

NGXGL1080D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	Irms 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL1080D-6R8M	6.80	±20%	1MHz/0.1V	6.40	7.10	21.0	18.5	18.2	6R8
NGXGL1080D-8R2M	8.20	±20%	1MHz/0.1V	7.60	8.50	19.5	17.5	17.2	8R2
NGXGL1080D-100M	10.0	±20%	1MHz/0.1V	9.70	10.8	18.0	16.0	15.7	100

◆ Electrical Characteristics

NGXGL1010D Type

San Ding Part	Inductance	Tolerance	Test Freq.	DCR(Typ.)	DCR(Max.)	Isat(Typ.)	Isat(Max.)	I _{rms} 40°C rise	Marking
Symbol	uH	-	-	mΩ	mΩ	A	A	A	-
NGXGL1010D-4R7M	4.70	±20%	1MHz/0.1V	4.30	4.80	25.4	22.8	22.5	4R7
NGXGL1010D-5R6M	5.60	±20%	1MHz/0.1V	4.95	5.50	23.6	21.5	21.2	5R6
NGXGL1010D-6R8M	6.80	±20%	1MHz/0.1V	6.84	7.60	21.8	19.8	19.5	6R8
NGXGL1010D-8R2M	8.20	±20%	1MHz/0.1V	8.10	9.00	20.0	18.0	17.7	8R2
NGXGL1010D-100M	10.00	±20%	1MHz/0.1V	9.50	10.5	18.0	16.5	16.2	100
NGXGL1010D-150M	15.00	±20%	1MHz/0.1V	13.5	15.0	15.5	14.0	13.8	150
NGXGL1010D-220M	22.00	±20%	1MHz/0.1V	18.5	20.5	13.0	11.8	11.6	220

Notes:

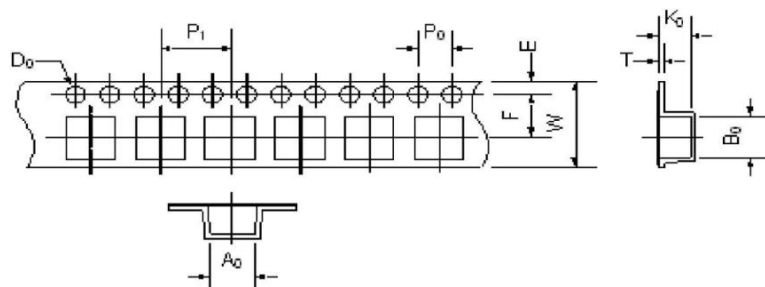
1.DCR test data is referenced to 20°C ambient;

2.Isat: Peak current for approximately 30% rolloff at +20 °C;

3.Irms:DC current for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise.It is recommended that the temperature of the part not exceed 125 °C under worst case operating conditions verified in the end application. Max. Value, $\Delta T < 40\text{ }^{\circ}\text{C}$; for Typ. Value, ΔT is approximate 40°C.

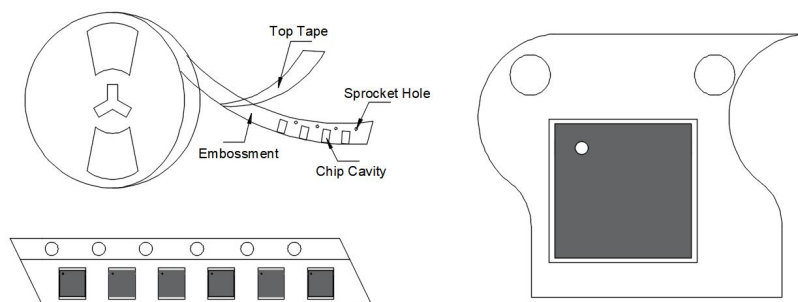
◆ Packaging Information

(1) Tape Packaging Dimensions (Unit: mm)



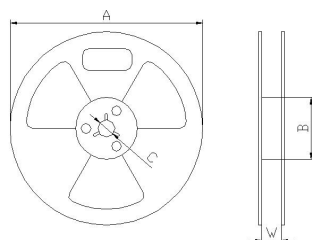
Series	A ₀	B ₀	E	F ₀	P ₀	P ₁	D ₀	T	K ₀	W
NGXGL3012D	3.45±0.1	3.65±0.1	1.75±0.1	5.5±0.05	4.0±0.1	8.0±0.1	1.5 + 0.1/-0.0	0.30±0.03	1.55±0.1	12.0±0.3
NGXGL4015D	4.45±0.1	4.45±0.1	1.75±0.1	5.5±0.05	4.0±0.1	8.0±0.1	1.5 + 0.1/-0.0	0.30±0.03	1.80±0.1	12.0±0.3
NGXGL4020D	4.45±0.1	4.45±0.1	1.75±0.1	5.5±0.05	4.0±0.1	8.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	2.30±0.1	12.0±0.3
NGXGL4030D	4.45±0.1	4.45±0.1	1.75±0.1	5.5±0.05	4.0±0.1	8.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	3.30±0.1	12.0±0.3
NGXGL5020D	5.75±0.1	5.55±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	2.30±0.1	16.0±0.3
NGXGL5027D	5.75±0.1	5.55±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	3.00±0.1	16.0±0.3
NGXGL5030D	5.75±0.1	5.55±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	3.30±0.1	16.0±0.3
NGXGL5050D	5.75±0.1	5.55±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.30±0.03	5.30±0.1	16.0±0.3
NGXGL6015D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.30±0.03	1.80±0.1	16.0±0.3
NGXGL6020D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	2.30±0.1	16.0±0.3
NGXGL6030D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	3.30±0.1	16.0±0.3
NGXGL6040D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	5.30±0.1	16.0±0.3
NGXGL6050D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	5.30±0.1	16.0±0.3
NGXGL6060D	7.00±0.1	6.80±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	6.30±0.1	16.0±0.3
NGXGL7017D	8.25±0.1	8.25±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.30±0.03	1.95±0.1	16.0±0.3
NGXGL7020D	8.25±0.1	8.25±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	2.30±0.1	16.0±0.3
NGXGL7030D	8.25±0.1	8.25±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.35±0.03	3.30±0.1	16.0±0.3
NGXGL7070D	8.25±0.1	8.25±0.1	1.75±0.1	7.5±0.05	4.0±0.1	12.0±0.1	1.5 + 0.1/-0.0	0.45±0.03	7.30±0.1	16.0±0.3
NGXGL1030D	12.40±0.1	11.50±0.1	1.75±0.1	11.5±0.05	4.0±0.1	16.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	3.30±0.1	24.0±0.3
NGXGL1040D	12.40±0.1	11.50±0.1	1.75±0.1	11.5±0.05	4.0±0.1	16.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	4.30±0.1	24.0±0.3
NGXGL1060D	12.40±0.1	11.50±0.1	1.75±0.1	11.5±0.05	4.0±0.1	16.0±0.1	1.5 + 0.1/-0.0	0.40±0.03	6.30±0.1	24.0±0.3
NGXGL1010D	12.40±0.1	11.50±0.1	1.75±0.1	11.5±0.05	4.0±0.1	16.0±0.1	1.5 + 0.1/-0.0	0.50±0.03	10.30±0.1	24.0±0.3

Taping Drawings (UNIT:mm)



备注：产品编好带后，卷盘的最外层为 400mmMIN, 最里层为 200mmMIN. 白色印字.

(2) Reel Dimensions (Unit: mm)

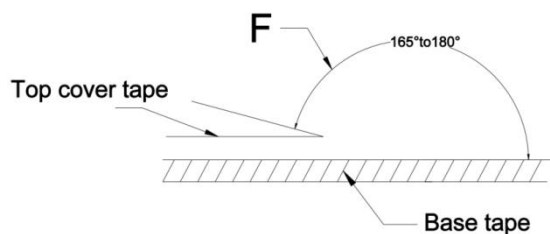


A	330±0.5
B	100±0.5
C	13.5±0.5
W	12.5±0.5

(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Reel Label

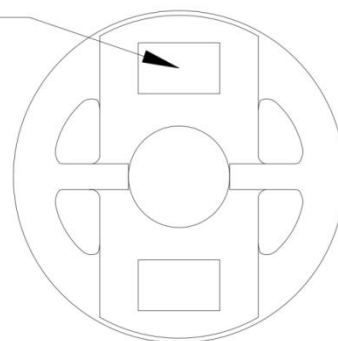
Label on the reel

- Customer's part Number
- Lot Number
- Quantity
- date code

Shipping Label

- Customer's part Number
- Manufacturer's part Number
- Quantity
- date code

标签



◆ Packaging List:

Product Series	Quantity/Reel	Inner Carton Quantity	Qut Carton Quantity
NGXGL3012D	4000 pcs	(4000*4) =16000pcs	(16000*3)=48000 pcs
NGXGL4015D	3000 pcs	(3000*4) =12000 pcs	(12000*3)= 36000pcs
NGXGL4020D	2500 pcs	(2500*4)=10000 pcs	(10000*3)=30000 pcs
NGXGL4030D	2000 pcs	(2000*4)=8000 pcs	(8000*3)=24000 pcs
NGXGL5020D	2500 pcs	(2500*3)=7500 pcs	(7500*3)=22500 pcs
NGXGL5027D	2000 pcs	(2000*3)=6000 pcs	(6000*3)=18000 pcs
NGXGL5030D	1500 pcs	(1500*3)=4500 pcs	(4500*3)=13500 pcs
NGXGL5050D	1000 pcs	(1000*3)=3000 pcs	(3000*3)=9000 pcs
NGXGL6015D	2000 pcs	(2000*3)=6000 pcs	(6000*3)=18000 pcs
NGXGL6020D	1500 pcs	(1500*3)=4500 pcs	(4500*3)=13500 pcs
NGXGL6030D	1000 pcs	(1000*3)=3000 pcs	(3000*3)=9000 pcs
NGXGL6040D	800 pcs	(800*3)=2400 pcs	(2400*3)=7200 pcs
NGXGL6050D	800 pcs	(800*3)=2400 pcs	(2400*3)=7200 pcs
NGXGL6060D	700 pcs	(700*3)=2100 pcs	(2100*3)=6300 pcs
NGXGL7017D	1500 pcs	(1500*3)=4500 pcs	(4500*3)=13500 pcs
NGXGL7020D	1500 pcs	(1500*3)=4500 pcs	(4500*3)=13500 pcs
NGXGL7030D	1000 pcs	(1000*3)=3000 pcs	(3000*3)=9000 pcs
NGXGL7070D	600 pcs	(600*3)=1800 pcs	(1800*3)=5400 pcs
NGXGL1030D	800 pcs	(800*3)=2400 pcs	(2400*3)=7200 pcs
NGXGL1040D	700 pcs	(700*3)=2100 pcs	(2100*3)=6300 pcs
NGXGL1060D	500 pcs	(500*3)=1500 pcs	(1500*3)=4500 pcs
NGXGL1010D	300 pcs	(300*3)=900 pcs	(900*3)=2700 pcs