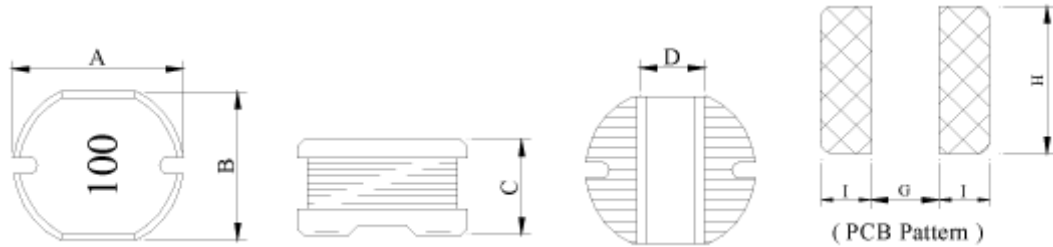


C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
 E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

1. Configuration & Dimensions



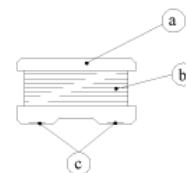
Series	Dimensions [mm]						
	A	B	C	D	G(ref.)	H(ref.)	I(ref.)
PN0315	3.0±0.2	2.8±0.2	1.5±0.2	0.9(typ.)	0.8	3.0	1.4
PN0302	3.0±0.3	2.8±0.3	2.5±0.3	0.9(typ.)	0.8	3.0	1.4
PN0403	4.5±0.3	4.0±0.3	3.2±0.3	1.5(typ.)	1.5	4.5	1.8
PN0502	5.0±0.3	4.5±0.3	2.0±0.15	2.0(ref.)	1.9	5.0	1.8
PN0602	5.6±0.2	5.6±0.2	2.5±0.3	2.3(ref.)	1.7	5.8	2.15
PN0603	5.6±0.2	5.6±0.2	3.7±0.3	2.3(ref.)	1.7	5.8	2.15
PN54	5.6±0.2	5.6±0.2	4.5±0.3	2.3(ref.)	1.7	5.8	2.15
PN75	7.5±0.3	7.5±0.3	5.0±0.3	2.6(ref.)	2.4	8.0	2.7
PN105	9.5±0.3	9.5±0.3	5.5±0.3	2.9(ref.)	2.8	10.0	3.6
PN1011	9.5±0.3	9.5±0.3	11.5±0.5	2.9(ref.)	2.8	10.0	3.6
PN1307	13.0±0.7	13.0±0.7	7.0±0.3	5.0(ref.)	4.5	14.0	4.75

2. Schematic Diagram



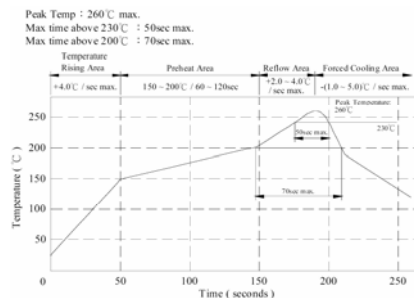
3. Materials

- a.- Core : Ferrite DR core
- b.- Wire : Enamelled copper wire (class F)
- c.- Terminal : Ag / Ni / Sn
- d.- Remark : Lead content 200ppm max. include ferrite



4. General Specification

- a.- Temp. rise { 30°C max.(PN0315)
40°C max.(PN0302,PN0403,PN0602,PN0603,
PN54,PN75,PN105,PN1011,PN1307)
20°C max.(PN0502)
- b.- Rated current : Base on temp. rise & ΔL/L0A = 10%
- c.- Storage temp. : -40°C ~ +125°C
- d.- Operating temp. : -40°C ~ +105°C
- e.- Resistance to solder heat : 260°C. 10 secs



5. Electrical Characteristics

PN0315 (2.2µH – 100µH)

DWG No.	Inductance (µH)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (Ω)		I _{rms} (mA) max.	I _{sat} (mA) typ.
			L (KHz)	Q (MHz)		typ.	max.		
PN0315 – 2R2M	2.2±20%	12	100	7.96	100	0.095	0.125	1200	1000
PN0315 – 4R7M	4.7±20%	10	100	7.96	80	0.165	0.215	1000	700
PN0315 – 100M	10.0±20%	12	100	2.52	55	0.360	0.450	650	500
PN0315 – 150M	15.0±20%	15	100	2.52	40	0.540	0.675	500	400
PN0315 – 220M	22.0±20%	20	100	2.52	35	0.850	1.060	420	330
PN0315 – 330K	33.0±10%	20	100	2.52	28	1.150	1.430	350	270
PN0315 – 470K	47.0±10%	15	100	2.52	23	1.550	1.950	300	220
PN0315 – 680K	68.0±10%	22	100	2.52	18	2.350	2.950	230	180
PN0315 – 101K	100.0±10%	40	100	0.796	15	3.500	4.400	200	160

PN0302 (1µH – 1200µH)

DWG No.	Inductance (µH)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) ΔT=40°C max.	I _{sat} (A) ΔL/L0A=10% typ.
			L (KHz)	Q (MHz)				
PN0302 – 1R0M	1.0±20%	20	100	7.96	125.0	0.06	2.100	2.700
PN0302 – 1R2M	1.2±20%	22	100	7.96	100.0	0.07	2.000	2.500
PN0302 – 1R5M	1.5±20%	23	100	7.96	95.0	0.07	1.900	2.300
PN0302 – 1R8M	1.8±20%	23	100	7.96	85.0	0.08	1.800	2.000
PN0302 – 2R2M	2.2±20%	22	100	7.96	75.0	0.09	1.650	1.850
PN0302 – 2R7M	2.7±20%	22	100	7.96	72.0	0.10	1.500	1.700
PN0302 – 3R3M	3.3±20%	23	100	7.96	68.0	0.11	1.400	1.600
PN0302 – 3R9M	3.9±20%	24	100	7.96	50.0	0.12	1.300	1.500
PN0302 – 4R7M	4.7±20%	18	100	7.96	45.0	0.15	1.200	1.350
PN0302 – 5R6M	5.6±20%	18	100	7.96	42.0	0.16	1.100	1.300
PN0302 – 6R8M	6.8±20%	18	100	7.96	40.0	0.18	1.000	1.200
PN0302 – 8R2M	8.2±20%	16	100	7.96	35.0	0.20	0.900	1.050
PN0302 – 100M	10.0±20%	18	100	2.52	34.0	0.25	0.800	0.900
PN0302 – 120M	12.0±20%	15	100	2.52	33.0	0.28	0.750	0.850
PN0302 – 150M	15.0±20%	20	100	2.52	32.0	0.40	0.650	0.800
PN0302 – 180M	18.0±20%	18	100	2.52	28.0	0.46	0.580	0.750
PN0302 – 220M	22.0±20%	23	100	2.52	22.0	0.66	0.520	0.650
PN0302 – 270M	27.0±20%	23	100	2.52	20.0	0.75	0.480	0.550

**PN0315 , PN0302 , PN0403 , PN0502 ,
PN0602 , PN0603 , PN54 , PN75 ,
PN105 , PN1011 & PN1307**
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C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN0302 (1 μ H – 1200 μ H)

PN0302 – 330K	33.0 $\pm$ 10%	20	100	2.52	18.0	0.85	0.420	0.500
PN0302 – 390K	39.0 $\pm$ 10%	24	100	2.52	18.0	1.12	0.380	0.450
PN0302 – 470K	47.0 $\pm$ 10%	23	100	2.52	17.0	1.27	0.360	0.400
PN0302 – 560K	56.0 $\pm$ 10%	18	100	2.52	16.0	1.45	0.340	0.350
PN0302 – 680K	68.0 $\pm$ 10%	24	100	2.52	14.0	1.85	0.300	0.320
PN0302 – 820K	82.0 $\pm$ 10%	24	100	2.52	12.0	2.10	0.280	0.300
PN0302 – 101K	100.0 $\pm$ 10%	40	100	0.796	10.0	2.85	0.260	0.280
PN0302 – 121K	120.0 $\pm$ 10%	40	100	0.796	10.0	3.20	0.220	0.250
PN0302 – 151K	150.0 $\pm$ 10%	38	100	0.796	9.0	4.60	0.200	0.230
PN0302 – 181K	180.0 $\pm$ 10%	45	100	0.796	8.5	5.00	0.185	0.210
PN0302 – 221K	220.0 $\pm$ 10%	40	100	0.796	8.0	5.70	0.170	0.190
PN0302 – 271K	270.0 $\pm$ 10%	45	100	0.796	7.0	8.60	0.150	0.170
PN0302 – 331K	330.0 $\pm$ 10%	40	100	0.796	6.0	10.00	0.130	0.150
PN0302 – 391K	390.0 $\pm$ 10%	40	100	0.796	5.5	10.80	0.120	0.140
PN0302 – 471K	470.0 $\pm$ 10%	42	100	0.796	5.0	14.30	0.105	0.130
PN0302 – 561K	560.0 $\pm$ 10%	43	100	0.796	4.8	16.00	0.095	0.120
PN0302 – 681K	680.0 $\pm$ 10%	43	100	0.796	4.3	18.00	0.085	0.110
PN0302 – 821K	820.0 $\pm$ 10%	45	100	0.796	4.0	22.50	0.080	0.100
PN0302 – 102K	1000.0 $\pm$ 10%	40	100	0.252	3.2	26.00	0.070	0.090
PN0302 – 122K	1200.0 $\pm$ 10%	40	100	0.252	3.0	30.00	0.060	0.080

PN0403 (1 μ H – 1000 μ H)

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		RDC (Ω) max.	IDC (A) max.
			L (KHz)	Q (MHz)		
PN0403 – 1R0M	1.0 $\pm$ 20%	28	1	7.96	0.033	3.800
PN0403 – 1R4M	1.4 $\pm$ 20%	28	1	7.96	0.038	3.300
PN0403 – 1R8M	1.8 $\pm$ 20%	28	1	7.96	0.042	2.910
PN0403 – 2R2M	2.2 $\pm$ 20%	28	1	7.96	0.047	2.600
PN0403 – 2R7M	2.7 $\pm$ 20%	28	1	7.96	0.052	2.430
PN0403 – 3R3M	3.3 $\pm$ 20%	28	1	7.96	0.058	2.150
PN0403 – 3R9M	3.9 $\pm$ 20%	28	1	7.96	0.076	1.980
PN0403 – 4R7M	4.7 $\pm$ 20%	28	1	7.96	0.094	1.700
PN0403 – 5R6M	5.6 $\pm$ 20%	28	1	7.96	0.101	1.600
PN0403 – 6R8M	6.8 $\pm$ 20%	28	1	7.96	0.117	1.410
PN0403 – 8R2M	8.2 $\pm$ 20%	28	1	7.96	0.132	1.260
PN0403 – 100M	10.0 $\pm$ 20%	28	1	2.52	0.182	1.150

**PN0315 , PN0302 , PN0403 , PN0502 ,
 PN0602 , PN0603 , PN54 , PN75 ,
 PN105 , PN1011 & PN1307**
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C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
 E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN0403 (1 μ H – 1000 μ H)

PN0403 – 120M	12.0 $\pm$ 20%	28	1	2.52	0.210	1.050
PN0403 – 150M	15.0 $\pm$ 20%	28	1	2.52	0.235	0.920
PN0403 – 180M	18.0 $\pm$ 20%	25	1	2.52	0.338	0.840
PN0403 – 220M	22.0 $\pm$ 20%	25	1	2.52	0.378	0.760
PN0403 – 270M	27.0 $\pm$ 20%	20	1	2.52	0.522	0.710
PN0403 – 330K	33.0 $\pm$ 10%	20	1	2.52	0.540	0.640
PN0403 – 390K	39.0 $\pm$ 10%	20	1	2.52	0.587	0.590
PN0403 – 470K	47.0 $\pm$ 10%	20	1	2.52	0.844	0.540
PN0403 – 560K	56.0 $\pm$ 10%	20	1	2.52	0.937	0.500
PN0403 – 680K	68.0 $\pm$ 10%	20	1	2.52	1.117	0.460
PN0403 – 820K	82.0 $\pm$ 10%	25	1	2.52	1.270	0.420
PN0403 – 101K	100.0 $\pm$ 10%	35	1	0.796	1.900	0.350
PN0403 – 121K	120.0 $\pm$ 10%	50	1	0.796	2.200	0.320
PN0403 – 151K	150.0 $\pm$ 10%	50	1	0.796	3.400	0.260
PN0403 – 181K	180.0 $\pm$ 10%	50	1	0.796	3.900	0.240
PN0403 – 221K	220.0 $\pm$ 10%	50	1	0.796	4.400	0.220
PN0403 – 271K	270.0 $\pm$ 10%	45	1	0.796	5.000	0.200
PN0403 – 331K	330.0 $\pm$ 10%	40	1	0.796	6.000	0.170
PN0403 – 391K	390.0 $\pm$ 10%	40	1	0.796	6.400	0.150
PN0403 – 471K	470.0 $\pm$ 10%	50	1	0.796	7.000	0.130
PN0403 – 561K	560.0 $\pm$ 10%	50	1	0.796	7.800	0.120
PN0403 – 681K	680.0 $\pm$ 10%	40	1	0.796	8.600	0.110
PN0403 – 821K	820.0 $\pm$ 10%	38	1	0.796	12.000	0.100
PN0403 – 102K	1000 $\pm$ 10%	38	1	0.252	14.000	0.090

PN0502 (100 μ H – 2700 μ H)

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		RDC (Ω) max.	I _{rms} (mA) $\Delta T=20^{\circ}C$ max.	I _{sat} (mA) $\Delta L/L0A=10\%$ typ.
			L (KHz)	Q (KHz)			
PN0502 – 101M	100.0 $\pm$ 20%	20	100	7.96	1.5	270	265
PN0502 – 121M	120.0 $\pm$ 20%	27	100	7.96	1.7	252	245
PN0502 – 151M	150.0 $\pm$ 20%	28	100	7.96	2.2	237	232
PN0502 – 181M	180.0 $\pm$ 20%	25	100	7.96	2.5	220	215
PN0502 – 221M	220.0 $\pm$ 20%	32	100	7.96	3.2	204	200
PN0502 – 271M	270.0 $\pm$ 20%	30	100	7.96	3.9	190	182
PN0502 – 331M	330.0 $\pm$ 20%	40	100	7.96	5.0	174	165
PN0502 – 391M	390.0 $\pm$ 20%	40	100	7.96	5.4	156	148

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PN0502 (100µH – 2700µH)

PN0502 – 471M	470.0±20%	32	100	7.96	6.5	140	130
PN0502 – 561M	560.0±20%	45	100	7.96	8.8	125	120
PN0502 – 681M	680.0±20%	40	100	7.96	10.5	110	105
PN0502 – 821M	820.0±20%	35	100	7.96	12.0	97	95
PN0502 – 102M	1000.0±20%	42	100	2.52	16.0	85	85
PN0502 – 122M	1200.0±20%	44	100	2.52	18.5	76	80
PN0502 – 152M	1500.0±20%	40	100	2.52	22.0	70	72
PN0502 – 182M	1800.0±20%	40	100	2.52	28.5	65	68
PN0502 – 222M	2200.0±20%	40	100	2.52	34.5	60	62
PN0502 – 272M	2700.0±20%	40	100	2.52	40.0	53	55

PN0602 (1µH – 1000µH)

DWG No.	Inductance (µH)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (mΩ) max.	I _{rms} (A) ΔT=40°C max.	I _{sat} (A) ΔL/L0A=10% typ.
			L (KHz)	Q (MHz)				
PN0602 – 1R0M	1.0±20%	14	100	7.96	90.0	30.0	4.50	4.60
PN0602 – 1R4M	1.4±20%	14	100	7.96	80.0	35.0	4.00	4.20
PN0602 – 1R8M	1.8±20%	13	100	7.96	70.0	40.0	3.30	3.50
PN0602 – 2R2M	2.2±20%	13	100	7.96	60.0	45.0	3.00	3.20
PN0602 – 2R7M	2.7±20%	13	100	7.96	55.0	50.0	2.80	3.00
PN0602 – 3R3M	3.3±20%	12	100	7.96	50.0	55.0	2.60	2.90
PN0602 – 3R9M	3.9±20%	12	100	7.96	45.0	60.0	2.40	2.70
PN0602 – 4R7M	4.7±20%	11	100	7.96	40.0	70.0	2.20	2.40
PN0602 – 5R6M	5.6±20%	11	100	7.96	36.0	85.0	2.00	2.30
PN0602 – 6R8M	6.8±20%	11	100	7.96	32.0	100.0	1.80	2.00
PN0602 – 8R2M	8.2±20%	11	100	7.96	30.0	110.0	1.60	1.90
PN0602 – 100M	10.0±20%	15	100	2.52	26.0	140.0	1.50	1.70
PN0602 – 120M	12.0±20%	15	100	2.52	24.0	150.0	1.40	1.60
PN0602 – 150M	15.0±20%	15	100	2.52	22.0	180.0	1.30	1.45
PN0602 – 180M	18.0±20%	15	100	2.52	20.0	220.0	1.20	1.30
PN0602 – 220M	22.0±20%	15	100	2.52	18.0	280.0	1.00	1.10
PN0602 – 270M	27.0±20%	12	100	2.52	16.0	320.0	0.90	1.05
PN0602 – 330K	33.0±10%	12	100	2.52	15.0	420.0	0.85	1.00
PN0602 – 390K	39.0±10%	12	100	2.52	14.0	480.0	0.75	0.80
PN0602 – 470K	47.0±10%	12	100	2.52	12.0	560.0	0.73	0.75
PN0602 – 560K	56.0±10%	12	100	2.52	11.0	700.0	0.65	0.70
PN0602 – 680K	68.0±10%	12	100	2.52	10.0	820.0	0.60	0.65

**PN0315 , PN0302 , PN0403 , PN0502 ,
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PN0602 (1 μ H – 1000 μ H)

PN0602 – 820K	82.0 $\pm$ 10%	12	100	2.52	9.5	1100.0	0.52	0.60
PN0602 – 101K	100.0 $\pm$ 10%	22	100	0.796	8.5	1250.0	0.46	0.55
PN0602 – 121K	120.0 $\pm$ 10%	22	100	0.796	8.0	1350.0	0.40	0.52
PN0602 – 151K	150.0 $\pm$ 10%	22	100	0.796	7.0	1650.0	0.36	0.46
PN0602 – 181K	180.0 $\pm$ 10%	24	100	0.796	6.5	1900.0	0.30	0.40
PN0602 – 221K	220.0 $\pm$ 10%	24	100	0.796	6.0	2200.0	0.28	0.35
PN0602 – 271K	270.0 $\pm$ 10%	24	100	0.796	5.5	3000.0	0.26	0.30
PN0602 – 331K	330.0 $\pm$ 10%	34	100	0.796	5.0	3800.0	0.20	0.25
PN0602 – 391K	390.0 $\pm$ 10%	34	100	0.796	4.5	4300.0	0.18	0.22
PN0602 – 471K	470.0 $\pm$ 10%	36	100	0.796	4.0	5200.0	0.16	0.20
PN0602 – 561K	560.0 $\pm$ 10%	36	100	0.796	3.8	6500.0	0.14	0.18
PN0602 – 681K	680.0 $\pm$ 10%	36	100	0.796	3.5	7500.0	0.13	0.16
PN0602 – 821K	820.0 $\pm$ 10%	36	100	0.796	3.0	9800.0	0.10	0.14
PN0602 – 102K	1000.0 $\pm$ 10%	36	100	0.252	2.6	11000.0	0.08	0.12

PN0603 (1.5 μ H – 470 μ H)

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L (KHz)	Q (MHz)			
PN0603 – 1R5M	1.5 $\pm$ 20%	24	1	7.96	85.0	0.040	3.00
PN0603 – 2R5M	2.5 $\pm$ 20%	21	1	7.96	74.0	0.045	2.35
PN0603 – 3R3M	3.3 $\pm$ 20%	21	1	7.96	68.0	0.048	2.20
PN0603 – 3R9M	3.9 $\pm$ 20%	22	1	7.96	62.0	0.050	2.10
PN0603 – 4R7M	4.7 $\pm$ 20%	20	1	7.96	56.0	0.066	1.80
PN0603 – 5R0M	5.0 $\pm$ 20%	19	1	7.96	50.0	0.070	1.60
PN0603 – 6R8M	6.8 $\pm$ 20%	19	1	7.96	44.0	0.110	1.38
PN0603 – 7R5M	7.5 $\pm$ 20%	19	1	7.96	38.0	0.120	1.29
PN0603 – 100M	10.0 $\pm$ 20%	24	1	2.52	34.0	0.150	1.14
PN0603 – 120M	12.0 $\pm$ 20%	23	1	2.52	30.0	0.160	1.02
PN0603 – 150M	15.0 $\pm$ 20%	22	1	2.52	28.0	0.180	0.93
PN0603 – 180M	18.0 $\pm$ 20%	23	1	2.52	24.0	0.250	0.82
PN0603 – 220M	22.0 $\pm$ 20%	20	1	2.52	20.0	0.275	0.75
PN0603 – 270M	27.0 $\pm$ 20%	19	1	2.52	19.0	0.300	0.67
PN0603 – 330K	33.0 $\pm$ 10%	23	1	2.52	15.0	0.450	0.61
PN0603 – 390K	39.0 $\pm$ 10%	22	1	2.52	13.0	0.460	0.56
PN0603 – 470K	47.0 $\pm$ 10%	20	1	2.52	13.0	0.550	0.52
PN0603 – 560K	56.0 $\pm$ 10%	17	1	2.52	12.0	0.615	0.48

**PN0315 , PN0302 , PN0403 , PN0502 ,
PN0602 , PN0603 , PN54 , PN75 ,
PN105 , PN1011 & PN1307**
SMD Power Inductors Unshielded

C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN0603 (1.5 μ H – 470 μ H)

PN0603 – 680K	68.0 $\pm$ 10%	17	1	2.52	12.0	0.720	0.44
PN0603 – 820K	82.0 $\pm$ 10%	15	1	2.52	11.0	0.840	0.40
PN0603 – 101K	100.0 $\pm$ 10%	28	1	0.796	9.6	0.950	0.38
PN0603 – 121K	120.0 $\pm$ 10%	27	1	0.796	8.1	1.100	0.36
PN0603 – 151K	150.0 $\pm$ 10%	28	1	0.796	7.5	1.430	0.32
PN0603 – 181K	180.0 $\pm$ 10%	26	1	0.796	6.9	1.600	0.30
PN0603 – 221K	220.0 $\pm$ 10%	26	1	0.796	5.5	2.000	0.26
PN0603 – 271K	270.0 $\pm$ 10%	26	1	0.796	4.9	2.400	0.24
PN0603 – 331K	330.0 $\pm$ 10%	28	1	0.796	4.7	3.200	0.20
PN0603 – 391K	390.0 $\pm$ 10%	28	1	0.796	4.1	3.400	0.18
PN0603 – 471K	470.0 $\pm$ 10%	29	1	0.796	3.5	4.550	0.15

PN54 (1.2 μ H – 820 μ H)

DWG No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L (KHz)	Q (MHz)			
PN54 – 1R2M	1.2 $\pm$ 20%	35	1	7.96	155.0	0.020	4.20
PN54 – 1R5M	1.5 $\pm$ 20%	32	1	7.96	108.0	0.024	3.60
PN54 – 2R2M	2.2 $\pm$ 20%	33	1	7.96	79.0	0.031	2.80
PN54 – 2R7M	2.7 $\pm$ 20%	22	1	7.96	65.0	0.055	2.30
PN54 – 3R3M	3.3 $\pm$ 20%	22	1	7.96	60.0	0.060	2.00
PN54 – 3R9M	3.9 $\pm$ 20%	22	1	7.96	40.0	0.065	1.90
PN54 – 4R7M	4.7 $\pm$ 20%	20	1	7.96	34.0	0.070	1.80
PN54 – 5R6M	5.6 $\pm$ 20%	20	1	7.96	30.0	0.075	1.70
PN54 – 6R8M	6.8 $\pm$ 20%	20	1	7.96	28.0	0.080	1.60
PN54 – 8R2M	8.2 $\pm$ 20%	20	1	7.96	26.0	0.090	1.50
PN54 – 100M	10.0 $\pm$ 20%	30	1	2.52	23.0	0.100	1.45
PN54 – 120M	12.0 $\pm$ 20%	30	1	2.52	22.0	0.120	1.40
PN54 – 150L	15.0 $\pm$ 15%	30	1	2.52	20.0	0.140	1.30
PN54 – 180L	18.0 $\pm$ 15%	30	1	2.52	18.0	0.150	1.25
PN54 – 220L	22.0 $\pm$ 15%	30	1	2.52	16.0	0.190	1.10
PN54 – 270L	27.0 $\pm$ 15%	28	1	2.52	14.0	0.220	1.00
PN54 – 330K	33.0 $\pm$ 10%	24	1	2.52	13.0	0.250	0.88
PN54 – 390K	39.0 $\pm$ 10%	24	1	2.52	13.0	0.320	0.80
PN54 – 470K	47.0 $\pm$ 10%	22	1	2.52	12.0	0.370	0.72
PN54 – 560K	56.0 $\pm$ 10%	22	1	2.52	11.0	0.420	0.68
PN54 – 680K	68.0 $\pm$ 10%	22	1	2.52	10.0	0.520	0.62

**PN0315 , PN0302 , PN0403 , PN0502 ,
 PN0602 , PN0603 , PN54 , PN75 ,
 PN105 , PN1011 & PN1307
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 E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN54 (1.2µH – 820µH)

PN54 – 820K	82.0±10%	20	1	2.52	9.0	0.600	0.58
PN54 – 101K	100.0±10%	20	1	0.796	8.5	0.700	0.52
PN54 – 121K	120.0±10%	22	1	0.796	6.6	0.930	0.48
PN54 – 151K	150.0±10%	22	1	0.796	6.2	1.100	0.40
PN54 – 181K	180.0±10%	20	1	0.796	6.0	1.380	0.38
PN54 – 221K	220.0±10%	20	1	0.796	5.6	1.570	0.35
PN54 – 271K	270.0±10%	26	1	0.796	3.9	1.880	0.32
PN54 – 331K	330.0±10%	25	1	0.796	3.3	2.250	0.27
PN54 – 391K	390.0±10%	25	1	0.796	3.1	2.480	0.25
PN54 – 471K	470.0±10%	25	1	0.796	2.9	3.300	0.21
PN54 – 561K	560.0±10%	24	1	0.796	2.5	4.000	0.18
PN54 – 681K	680.0±10%	26	1	0.796	2.3	4.650	0.16
PN54 – 821K	820.0±10%	25	1	0.796	2.0	5.200	0.14

PN75 (1.5µH – 4700µH)

DWG No.	Inductance (µH)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L (KHz)	Q (MHz)			
PN75 – 1R5M	1.5±20%	32	1	7.96	120.0	0.015	6.00
PN75 – 2R5M	2.5±20%	32	1	7.96	70.0	0.020	5.00
PN75 – 3R3M	3.3±20%	32	1	7.96	55.0	0.022	4.60
PN75 – 3R9M	3.9±20%	32	1	7.96	45.0	0.024	4.40
PN75 – 4R7M	4.7±20%	31	1	7.96	38.0	0.033	3.70
PN75 – 5R6M	5.6±20%	31	1	7.96	34.0	0.035	3.50
PN75 – 6R8M	6.8±20%	30	1	7.96	33.0	0.040	3.20
PN75 – 8R2M	8.2±20%	29	1	7.96	30.0	0.050	2.80
PN75 – 100M	10.0±20%	25	1	2.52	22.0	0.070	2.30
PN75 – 120M	12.0±20%	25	1	2.52	20.0	0.080	2.00
PN75 – 150M	15.0±20%	25	1	2.52	16.0	0.090	1.80
PN75 – 180M	18.0±20%	20	1	2.52	15.0	0.100	1.60
PN75 – 220M	22.0±20%	20	1	2.52	13.0	0.110	1.50
PN75 – 270M	27.0±20%	20	1	2.52	12.0	0.120	1.30
PN75 – 330K	33.0±10%	15	1	2.52	10.0	0.140	1.20
PN75 – 390K	39.0±10%	15	1	2.52	9.5	0.160	1.10
PN75 – 470K	47.0±10%	15	1	2.52	9.0	0.200	1.00
PN75 – 560K	56.0±10%	15	1	2.52	8.5	0.240	0.94
PN75 – 680K	68.0±10%	15	1	2.52	8.0	0.300	0.85

**PN0315 , PN0302 , PN0403 , PN0502 ,
 PN0602 , PN0603 , PN54 , PN75 ,
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C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
 E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN75 (1.5μH – 4700μH)

PN75 – 820K	82.0±10%	12	1	2.52	7.0	0.370	0.78
PN75 – 101K	100.0±10%	12	1	0.796	6.5	0.450	0.72
PN75 – 121K	120.0±10%	12	1	0.796	5.6	0.480	0.66
PN75 – 151K	150.0±10%	12	1	0.796	5.5	0.680	0.58
PN75 – 181K	180.0±10%	12	1	0.796	5.0	0.770	0.51
PN75 – 221K	220.0±10%	12	1	0.796	4.8	0.960	0.49
PN75 – 271K	270.0±10%	12	1	0.796	4.5	1.110	0.42
PN75 – 331K	330.0±10%	12	1	0.796	4.3	1.260	0.40
PN75 – 391K	390.0±10%	12	1	0.796	4.0	1.770	0.36
PN75 – 471K	470.0±10%	12	1	0.796	3.8	1.960	0.34
PN75 – 561K	560.0±10%	30	1	0.796	3.7	2.500	0.30
PN75 – 681K	680.0±10%	29	1	0.796	3.5	2.800	0.28
PN75 – 821K	820.0±10%	28	1	0.796	3.2	4.000	0.23
PN75 – 102K	1000.0±10%	27	1	0.252	3.0	4.500	0.21
PN75 – 122K	1200.0±10%	28	1	0.252	2.6	6.800	0.17
PN75 – 152K	1500.0±10%	27	1	0.252	2.4	8.000	0.15
PN75 – 182K	1800.0±10%	30	1	0.252	1.6	9.200	0.14
PN75 – 222K	2200.0±10%	29	1	0.252	1.5	10.000	0.13
PN75 – 272K	2700.0±10%	31	1	0.252	1.4	11.800	0.12
PN75 – 332K	3300.0±10%	28	1	0.252	1.2	16.500	0.10
PN75 – 392K	3900.0±10%	28	1	0.252	1.1	18.000	0.09
PN75 – 472K	4700.0±10%	30	1	0.252	1.0	21.000	0.08

PN105 (1.5μH – 4700μH)

DWG No.	Inductance (μH)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L (KHz)	Q (MHz)			
PN105 – 1R5M	1.5±20%	35	1	7.96	105.0	0.018	6.40
PN105 – 2R2M	2.2±20%	35	1	7.96	68.0	0.021	5.40
PN105 – 3R3M	3.3±20%	34	1	7.96	55.0	0.024	5.00
PN105 – 3R9M	3.9±20%	34	1	7.96	48.0	0.027	4.60
PN105 – 4R7M	4.7±20%	33	1	7.96	40.0	0.036	4.00
PN105 – 5R6M	5.6±20%	33	1	7.96	35.0	0.040	3.80
PN105 – 6R8M	6.8±20%	33	1	7.96	32.0	0.044	3.40
PN105 – 8R2M	8.2±20%	31	1	7.96	24.0	0.048	3.00
PN105 – 100M	10.0±20%	30	1	2.52	21.0	0.060	2.60
PN105 – 120M	12.0±20%	30	1	2.52	20.0	0.070	2.45

PN105 (1.5μH – 4700μH)

PN105 – 150M	15.0±20%	30	1	2.52	16.0	0.080	2.25
PN105 – 180M	18.0±20%	30	1	2.52	15.0	0.090	2.15
PN105 – 220M	22.0±20%	25	1	2.52	13.0	0.100	1.95
PN105 – 270M	27.0±20%	25	1	2.52	11.0	0.110	1.75
PN105 – 330K	33.0±10%	25	1	2.52	10.0	0.120	1.50
PN105 – 390K	39.0±10%	20	1	2.52	9.0	0.140	1.35
PN105 – 470K	47.0±10%	20	1	2.52	8.0	0.170	1.25
PN105 – 560K	56.0±10%	20	1	2.52	7.5	0.190	1.15
PN105 – 680K	68.0±10%	15	1	2.52	7.0	0.220	1.10
PN105 – 820K	82.0±10%	15	1	2.52	6.0	0.250	1.00
PN105 – 101K	100.0±10%	15	1	0.796	5.2	0.350	0.97
PN105 – 121K	120.0±10%	15	1	0.796	5.0	0.400	0.89
PN105 – 151K	150.0±10%	15	1	0.796	4.5	0.470	0.78
PN105 – 181K	180.0±10%	12	1	0.796	4.0	0.630	0.72
PN105 – 221K	220.0±10%	12	1	0.796	3.8	0.730	0.66
PN105 – 271K	270.0±10%	12	1	0.796	3.5	0.970	0.57
PN105 – 331K	330.0±10%	12	1	0.796	3.2	1.150	0.52
PN105 – 391K	390.0±10%	12	1	0.796	3.0	1.300	0.48
PN105 – 471K	470.0±10%	12	1	0.796	2.5	1.480	0.42
PN105 – 561K	560.0±10%	12	1	0.796	2.3	1.900	0.33
PN105 – 681K	680.0±10%	12	1	0.796	2.1	2.250	0.28
PN105 – 821K	820.0±10%	10	1	0.796	2.0	2.550	0.24
PN105 – 102K	1000.0±10%	29	1	0.252	1.9	3.100	0.23
PN105 – 122K	1200.0±10%	32	1	0.252	1.8	4.200	0.21
PN105 – 152K	1500.0±10%	31	1	0.252	1.7	5.000	0.19
PN105 – 182K	1800.0±10%	31	1	0.252	1.6	6.800	0.17
PN105 – 222K	2200.0±10%	31	1	0.252	1.5	7.600	0.16
PN105 – 272K	2700.0±10%	32	1	0.252	1.4	11.600	0.14
PN105 – 332K	3300.0±10%	32	1	0.252	1.3	13.500	0.12
PN105 – 392K	3900.0±10%	31	1	0.252	1.2	14.800	0.11
PN105 – 472K	4700.0±10%	32	1	0.252	0.8	18.000	0.10

**PN0315 , PN0302 , PN0403 , PN0502 ,
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C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 **Fax** +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>

PN1011 (10 μ H – 1000 μ H)

DWG No.	Inductance (μ H)	SRF (MHz) typ.	RDC (Ω) max.	Irms 1 $\Delta T=20^{\circ}\text{C}$ typ.	Irms 2 $\Delta T=40^{\circ}\text{C}$ max.	Isat $\Delta L/L0A=10\%$ max.
PN1011 – 100M	10.0 $\pm$ 20%	18.0	0.035	3.50	5.00	8.00
PN1011 – 150M	15.0 $\pm$ 20%	13.0	0.045	3.00	4.00	7.00
PN1011 – 220M	22.0 $\pm$ 20%	12.0	0.065	2.50	3.20	5.50
PN1011 – 330M	33.0 $\pm$ 20%	9.5	0.080	2.00	2.60	4.00
PN1011 – 470M	47.0 $\pm$ 20%	7.0	0.110	1.70	2.20	3.80
PN1011 – 680M	68.0 $\pm$ 20%	5.8	0.150	1.50	2.00	3.00
PN1011 – 101K	100.0 $\pm$ 10%	4.8	0.200	1.30	1.80	2.50
PN1011 – 151K	150.0 $\pm$ 10%	3.8	0.320	1.00	1.50	2.00
PN1011 – 221K	220.0 $\pm$ 10%	3.1	0.420	0.90	1.20	1.70
PN1011 – 331K	330.0 $\pm$ 10%	2.5	0.700	0.70	0.90	1.30
PN1011 – 471K	470.0 $\pm$ 10%	2.1	0.900	0.50	0.75	1.10
PN1011 – 681K	680.0 $\pm$ 10%	1.7	1.250	0.40	0.60	1.00
PN1011 – 102K	1000.0 $\pm$ 10%	1.4	1.900	0.30	0.50	0.80

PN1307 (1.5 μ H – 1000 μ H)

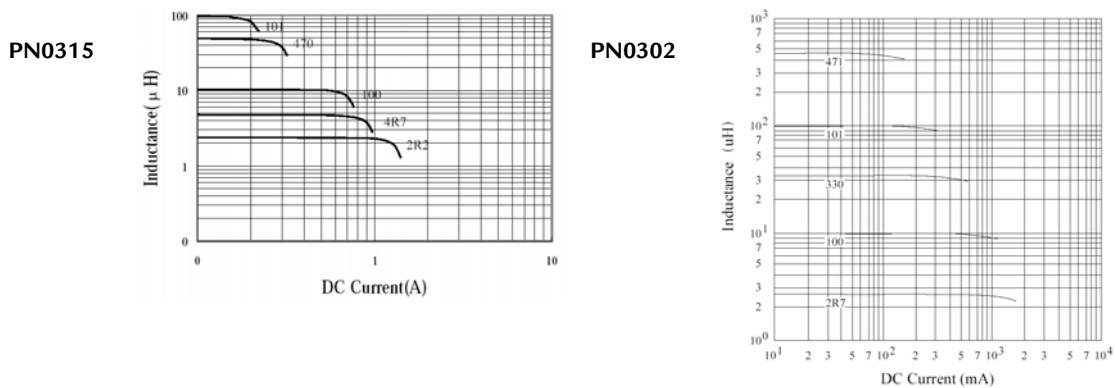
DWG No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) nom.	RDC (m Ω) max.	Irms (A)	Isat (A)
			L (KHz)	Q (MHz)				
PN1307 – 1R5M	1.5 $\pm$ 20%	20	100	7.96	65.0	5.0	9.50	20.00
PN1307 – 2R2M	2.2 $\pm$ 20%	22	100	7.96	50.0	6.0	9.00	18.00
PN1307 – 2R7M	2.7 $\pm$ 20%	24	100	7.96	40.0	8.0	8.20	16.00
PN1307 – 3R3M	3.3 $\pm$ 20%	26	100	7.96	38.0	8.7	7.50	15.00
PN1307 – 4R7M	4.7 $\pm$ 20%	25	100	7.96	36.0	10.0	7.00	13.00
PN1307 – 5R6M	5.6 $\pm$ 20%	24	100	7.96	28.0	15.0	6.50	11.00
PN1307 – 6R8M	6.8 $\pm$ 20%	24	100	7.96	26.0	17.0	6.00	10.50
PN1307 – 8R2M	8.2 $\pm$ 20%	24	100	7.96	24.0	19.0	5.80	9.80
PN1307 – 100M	10.0 $\pm$ 20%	22	100	2.52	22.0	21.0	5.60	9.20
PN1307 – 120M	12.0 $\pm$ 20%	25	100	2.52	20.0	30.0	4.80	8.00
PN1307 – 150M	15.0 $\pm$ 20%	28	100	2.52	17.0	34.0	4.50	7.50
PN1307 – 180M	18.0 $\pm$ 20%	28	100	2.52	16.0	36.0	4.20	7.00
PN1307 – 220M	22.0 $\pm$ 20%	40	100	2.52	15.0	47.0	3.60	6.50
PN1307 – 270M	27.0 $\pm$ 20%	35	100	2.52	11.0	60.0	3.30	5.50
PN1307 – 330K	33.0 $\pm$ 10%	35	100	2.52	10.0	65.0	3.10	5.00
PN1307 – 390K	39.0 $\pm$ 10%	28	100	2.52	9.0	75.0	2.90	4.60
PN1307 – 470K	47.0 $\pm$ 10%	24	100	2.52	7.5	82.0	2.70	4.20

PN1307 (1.5 μ H – 1000 μ H)

PN1307 – 560K	56.0 $\pm$ 10%	22	100	2.52	7.2	100.0	2.50	3.80
PN1307 – 680K	68.0 $\pm$ 10%	24	100	2.52	7.0	120.0	2.30	3.50
PN1307 – 820K	82.0 $\pm$ 10%	18	100	2.52	6.0	140.0	2.10	3.20
PN1307 – 101K	100.0 $\pm$ 10%	25	100	0.796	5.8	180.0	1.90	3.00
PN1307 – 121K	120.0 $\pm$ 10%	20	100	0.796	5.5	210.0	1.80	2.80
PN1307 – 151K	150.0 $\pm$ 10%	20	100	0.796	4.5	250.0	1.60	2.60
PN1307 – 181K	180.0 $\pm$ 10%	18	100	0.796	4.0	280.0	1.50	2.30
PN1307 – 221K	220.0 $\pm$ 10%	15	100	0.796	3.8	360.0	1.30	2.10
PN1307 – 271K	270.0 $\pm$ 10%	15	100	0.796	3.5	410.0	1.20	1.80
PN1307 – 331K	330.0 $\pm$ 10%	15	100	0.796	3.2	520.0	1.10	1.60
PN1307 – 391K	390.0 $\pm$ 10%	12	100	0.796	2.5	600.0	1.00	1.50
PN1307 – 471K	470.0 $\pm$ 10%	12	100	0.796	2.2	720.0	0.90	1.40
PN1307 – 561K	560.0 $\pm$ 10%	10	100	0.796	2.0	880.0	0.85	1.30
PN1307 – 681K	680.0 $\pm$ 10%	10	100	0.796	1.6	1000.0	0.80	1.20
PN1307 – 821K	820.0 $\pm$ 10%	10	100	0.796	1.5	1300.0	0.75	1.10
PN1307 – 102K	1000.0 $\pm$ 10%	10	100	0.252	1.4	1600.0	0.65	1.00

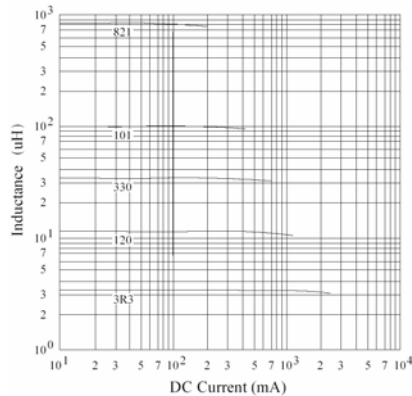
6. Curve

Inductance VS. DC Current Curve

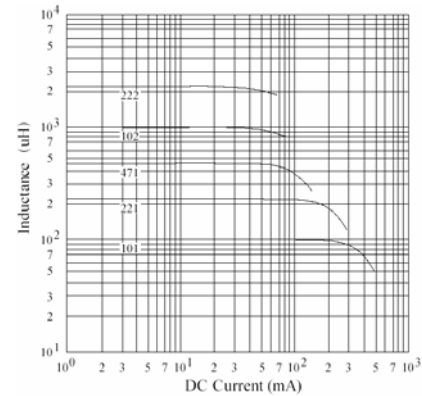


Inductance VS. DC Current Curve

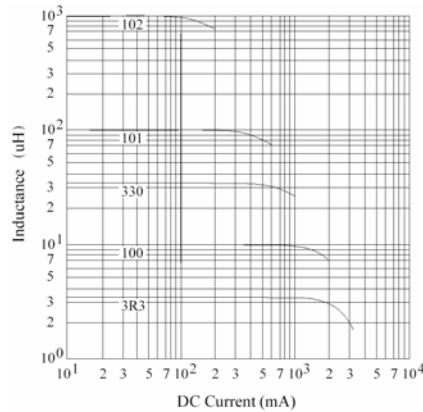
PN0403



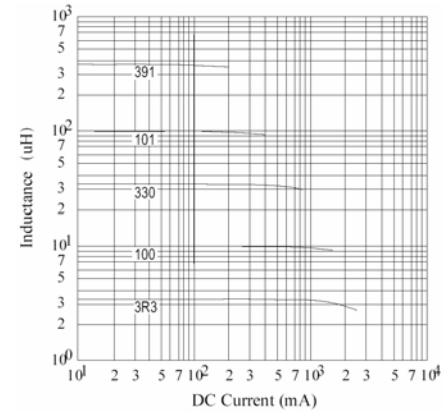
PN0502



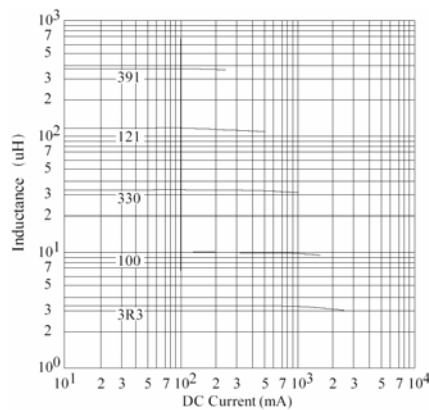
PN0602



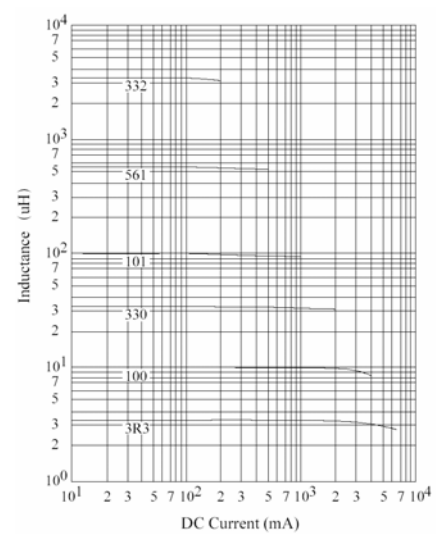
PN0603



PN54

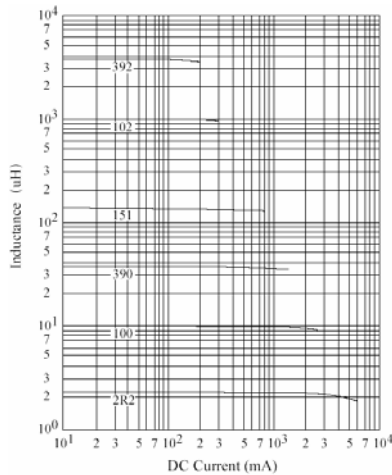


PN75

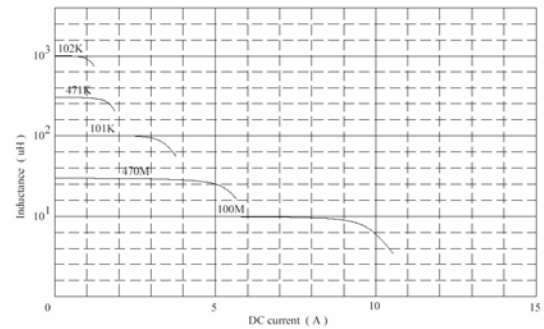


Inductance VS. DC Current Curve

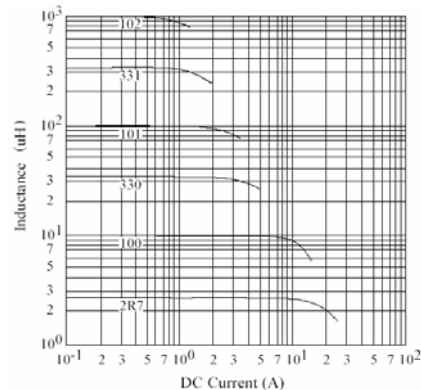
PN105



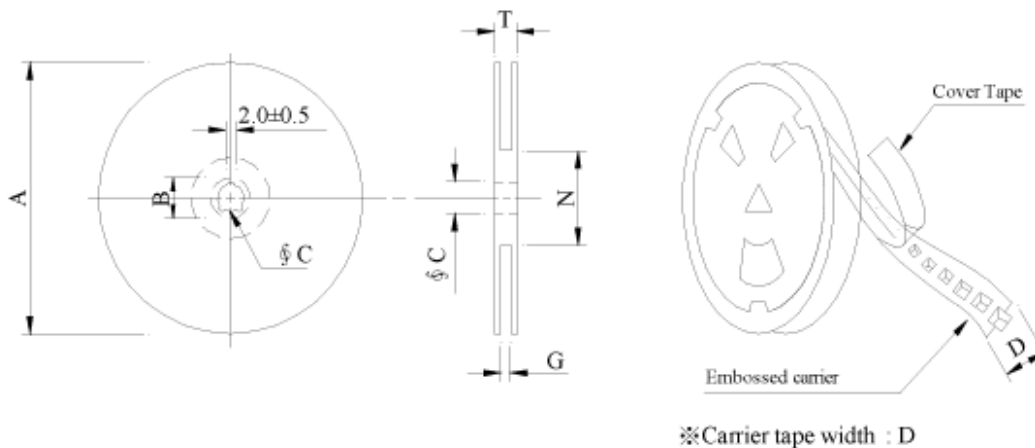
PN1011



PN1307

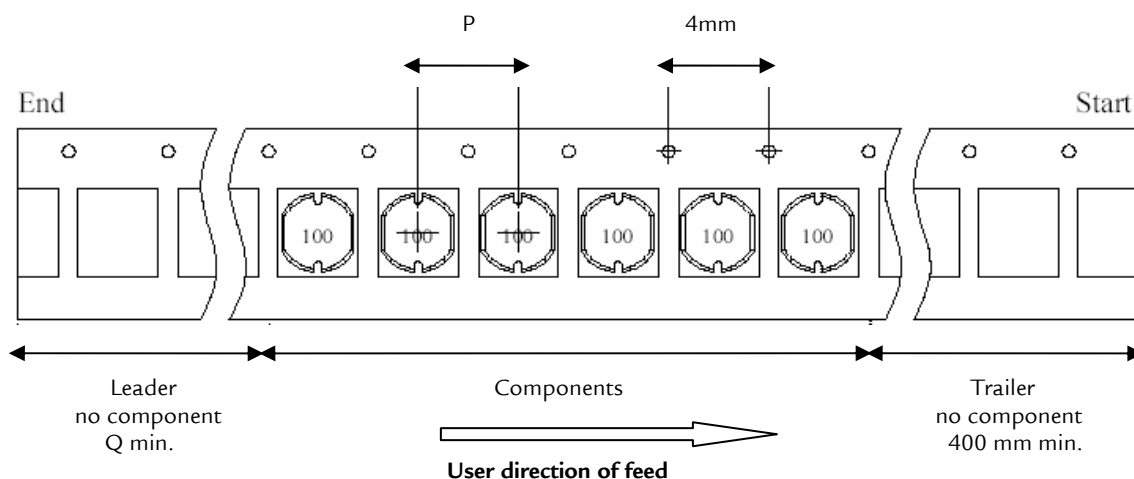


7. Packaging Information



PN0315 , PN0302 , PN0403 , PN0502 , PN0602 , PN0603 , PN54 , PN75 , PN105 , PN1011 & PN1307 SMD Power Inductors Unshielded

C/Severo Ochoa 33 - Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 **Fax** +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web <http://www.grupopremo.com>



(PN0315, PN0302 → P = 4mm) (PN0403, PN0502, PN0602, PN0603, PN54 → P = 8mm) (PN75, PN105 → P = 12mm) (PN1011, PN1307 → P = 20mm)
(PN0315, PN0302, PN0403, PN0502, PN0602, PN0603, PN105, PN1307 → Q = 160mm) (PN54, PN75, PN1011 → Q = 200mm)

PN0315

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

PN0302 & PN0403

Style	Dimensions [mm]						
	A	B	C	D	G	N	T
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

PN0502 & PN0602

Style	Dimensions [mm]						
	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	16.5

PN0603 & PN54

Style	Dimensions [mm]						
	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

PN75

Style	Dimensions [mm]						
	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

PN105, PN1011 & PN1307

Style	Dimensions [mm]						
	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	50 ⁻⁰	30.4

Series	Inner : Reel			Outer : Carton		
	Q'TY(pcs)	G.W.(gw)	Style	Q'TY(pcs)	G.W.(Kg)	Size(cm)
PN0315	2,000	600	07 - 08	100,000	11.9	42 x 41 x 24
PN0302	2,500	300	07 - 08	50,000	5.8	42 x 41 x 24
PN0403	2,000	1,100	13 - 12	16,000	11.9	40 x 40 x 24
PN0502	800	416	07 - 12	32,000	16.6	42 x 41 x 24
PN0602	700	220	07 - 12	28,000	9.6	42 x 41 x 24
PN0603	400	260	07 - 12	16,000	8.5	42 x 41 x 24
PN0603	1,500	650	13 - 12	12,000	8.0	40 x 40 x 24
PN54	400	300	07 - 12	16,000	10.0	42 x 41 x 24
PN54	1,500	1,180	13 - 12	12,000	11.5	40 x 40 x 24
PN75	1,000	1,300	13 - 16	6,000	10.5	40 x 40 x 24
PN105	800	1,800	13 - 24	3,200	9.5	40 x 40 x 24
PN1011	250	1,070	13 - 24	1,000	6.0	40 x 40 x 24
PN1307	400	1,800	13 - 24	1,600	9.5	40 x 40 x 24

8. Labelling



BATCH: 



PREDAN P/N: PNXXXX - XXXX

QTY: 

9. Reliability Test

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode shall be covered with fresh solder	Preheat : 150±25% for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	$\frac{\text{Room temp.}}{15 \text{ minutes}} \longrightarrow \frac{-25 \pm 2^{\circ}\text{C}}{30 \text{ minutes}}$ $\frac{\text{Room temp.}}{15 \text{ minutes}} \longrightarrow \frac{85 \pm 2^{\circ}\text{C}}{30 \text{ minutes}}$ Total : 50 cycles
Humidity Resistance test		Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per specifications Time : 500 hours
High temp. Resistance test		Temperature : 105±2°C Applied current : Per specifications Time : 500 hours

10. Edition Control

Edition	Date	Change description	Made by
1 st	31/08/06	Update Specification	Pablo Pozo
2 nd	11/02/08	PN0302 reel size changed and qty per reel increased up to 2500	Federico Martin