

Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

⚠️ REMINDERS

■ Product Information in this Catalog

Product information in this catalog is as of October 2019. All of the contents specified herein and production status of the products listed in this catalog are subject to change without notice due to technical improvement of our products, etc. Therefore, please check for the latest information carefully before practical application or use of our products.

Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

■ Approval of Product Specifications

Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available. When using our products, please be sure to approve our product specifications or make a written agreement on the product specification with TAIYO YUDEN in advance.

■ Pre-Evaluation in the Actual Equipment and Conditions

Please conduct validation and verification of our products in actual conditions of mounting and operating environment before using our products.

■ Limited Application

1. Equipment Intended for Use

The products listed in this catalog are intended for general-purpose and standard use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC) and other equipment specified in this catalog or the individual product specification sheets.

TAIYO YUDEN has the line-up of the products intended for use in automotive electronic equipment, telecommunications infrastructure and industrial equipment, or medical devices classified as GHTF Classes A to C (Japan Classes I to III). Therefore, when using our products for these equipment, please check available applications specified in this catalog or the individual product specification sheets and use the corresponding products.

2. Equipment Requiring Inquiry

Please be sure to contact TAIYO YUDEN for further information before using the products listed in this catalog for the following equipment (excluding intended equipment as specified in this catalog or the individual product specification sheets) which may cause loss of human life, bodily injury, serious property damage and/or serious public impact due to a failure or defect of the products and/or malfunction attributed thereto.

- (1) Transportation equipment (automotive powertrain control system, train control system, and ship control system, etc.)
- (2) Traffic signal equipment
- (3) Disaster prevention equipment, crime prevention equipment
- (4) Medical devices classified as GHTF Class C (Japan Class III)
- (5) Highly public information network equipment, data-processing equipment (telephone exchange, and base station, etc.)
- (6) Any other equipment requiring high levels of quality and/or reliability equal to the equipment listed above

3. Equipment Prohibited for Use

Please do not incorporate our products into the following equipment requiring extremely high levels of safety and/or reliability.

- (1) Aerospace equipment (artificial satellite, rocket, etc.)
- (2) Aviation equipment *1
- (3) Medical devices classified as GHTF Class D (Japan Class IV), implantable medical devices *2

- (4) Power generation control equipment (nuclear power, hydroelectric power, thermal power plant control system, etc.)
- (5) Undersea equipment (submarine repeating equipment, underwater work equipment, etc.)
- (6) Military equipment
- (7) Any other equipment requiring extremely high levels of safety and/or reliability equal to the equipment listed above

*Notes:

1. There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.
2. Implantable medical devices contain not only internal unit which is implanted in a body, but also external unit which is connected to the internal unit.

4. Limitation of Liability

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment that is not intended for use by TAIYO YUDEN, or any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

■ Safety Design

When using our products for high safety and/or reliability-required equipment or circuits, please fully perform safety and/or reliability evaluation. In addition, please install (i) systems equipped with a protection circuit and a protection device and/or (ii) systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault for a failsafe design to ensure safety.

■ Intellectual Property Rights

Information contained in this catalog is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.

■ Limited Warranty

Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a failure or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement.

■ TAIYO YUDEN's Official Sales Channel

The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.

■ Caution for Export

Some of our products listed in this catalog may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.

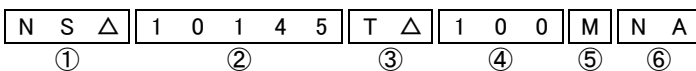
SMD POWER INDUCTORS(NS SERIES)



REFLOW

■ PARTS NUMBER

* Operating Temp.: -40~+125°C (Including self-generated heat)



△=Blank space

① Series name

Code	Series name
NS△	Shielded specification

② Dimensions (L × W × H)

Code	Dimensions (L × W × H) [mm]
10145	10.1 × 10.1 × 4.5
10155	10.1 × 10.1 × 5.5
10165	10.1 × 10.1 × 6.5
12555	12.5 × 12.5 × 5.5
12565	12.5 × 12.5 × 6.5
12575	12.5 × 12.5 × 7.5

③ Packaging

Code	Packaging
T△	Taping

④ Nominal inductance

Code (example)	Nominal inductance [μH]
1R0	1.0
100	10
101	100

※R=Decimal point

⑤ Inductance tolerance

Code	Inductance tolerance
M	±20%
N	±30%

⑥ Internal code

Code	Internal code
N△	Internal code
NA	

■ STANDARD EXTERNAL DIMENSIONS / MINIMUM QUANTITY



※ The NS 101□□ type does not have the indication of the Manufacturing date code.

Type	L	W	H	a	b	Minimum quantity [pcs]
NS 10145	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	4.5±0.35 (0.177±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
NS 10155	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	5.5±0.35 (0.217±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
NS 10165	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	6.5±0.35 (0.256±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
NS 12555	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	5.5±0.35 (0.217±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000
NS 12565	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	6.5±0.35 (0.256±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000
NS 12575	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	7.5±0.35 (0.295±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000

Unit : mm (inch)

Recommended Land Patterns

Surface Mounting

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to these products is reflow soldering only.



Type	A	B	C
NS 10145	2.5	5.6	3.2
NS 10155	2.5	5.6	3.2
NS 10165	2.5	5.6	3.2
NS 12555	2.5	8.6	3.2
NS 12565	2.5	8.6	3.2
NS 12575	2.5	8.6	3.2

Unit : mm

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PARTS NUMBER

● NS 10145 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω] ($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 10145T 1R0NNA	RoHS	1.0	$\pm 30\%$	0.0049	12.54	8.90	100
NS 10145T 1R5NNA	RoHS	1.5	$\pm 30\%$	0.0060	10.34	7.99	100
NS 10145T 2R2NNA	RoHS	2.2	$\pm 30\%$	0.0085	8.91	6.64	100
NS 10145T 3R3NNA	RoHS	3.3	$\pm 30\%$	0.0100	7.33	6.10	100
NS 10145T 4R7NNA	RoHS	4.7	$\pm 30\%$	0.0144	6.69	5.03	100
NS 10145T 5R6NNA	RoHS	5.6	$\pm 30\%$	0.0181	5.85	4.45	100
NS 10145T 6R8NNA	RoHS	6.8	$\pm 30\%$	0.0200	5.05	4.22	100
NS 10145T 100MNA	RoHS	10	$\pm 20\%$	0.0248	4.22	3.77	100
NS 10145T 150MNA	RoHS	15	$\pm 20\%$	0.0381	3.44	3.00	100
NS 10145T 220MNA	RoHS	22	$\pm 20\%$	0.0520	2.87	2.55	100
NS 10145T 330MNA	RoHS	33	$\pm 20\%$	0.0815	2.36	2.01	100
NS 10145T 470MNA	RoHS	47	$\pm 20\%$	0.100	1.85	1.80	100
NS 10145T 680MNA	RoHS	68	$\pm 20\%$	0.150	1.66	1.45	100
NS 10145T 101MNA	RoHS	100	$\pm 20\%$	0.200	1.29	1.25	100
NS 10145T 151MNA	RoHS	150	$\pm 20\%$	0.341	1.11	0.94	100
NS 10145T 221MNA	RoHS	220	$\pm 20\%$	0.485	0.91	0.78	100
NS 10145T 331MNA	RoHS	330	$\pm 20\%$	0.700	0.71	0.64	100
NS 10145T 471MNA	RoHS	470	$\pm 20\%$	1.030	0.61	0.52	100
NS 10145T 681MNA	RoHS	680	$\pm 20\%$	1.57	0.50	0.42	100
NS 10145T 102MNA	RoHS	1000	$\pm 20\%$	2.58	0.41	0.32	100
NS 10145T 152MNA	RoHS	1500	$\pm 20\%$	3.70	0.36	0.27	100

● NS 10155 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω] ($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 10155T 1R5NNA	RoHS	1.5	$\pm 30\%$	0.0060	11.90	8.39	100
NS 10155T 2R2NNA	RoHS	2.2	$\pm 30\%$	0.0072	10.00	7.61	100
NS 10155T 3R3NNA	RoHS	3.3	$\pm 30\%$	0.0097	8.50	6.49	100
NS 10155T 4R7NNA	RoHS	4.7	$\pm 30\%$	0.0112	7.40	6.01	100
NS 10155T 6R8NNA	RoHS	6.8	$\pm 30\%$	0.0159	6.00	4.98	100
NS 10155T 100MNA	RoHS	10	$\pm 20\%$	0.0200	4.49	4.40	100
NS 10155T 150MNA	RoHS	15	$\pm 20\%$	0.0284	4.03	3.65	100
NS 10155T 220MNA	RoHS	22	$\pm 20\%$	0.0380	3.37	3.12	100

● NS 10165 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω] ($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 10165T 1R5NNA	RoHS	1.5	$\pm 30\%$	0.0062	13.60	8.04	100
NS 10165T 2R2NNA	RoHS	2.2	$\pm 30\%$	0.0074	10.80	7.32	100
NS 10165T 3R3NNA	RoHS	3.3	$\pm 30\%$	0.0086	9.30	6.76	100
NS 10165T 4R7NNA	RoHS	4.7	$\pm 30\%$	0.0112	7.70	5.88	100
NS 10165T 6R8NNA	RoHS	6.8	$\pm 30\%$	0.0140	6.00	5.22	100
NS 10165T 100MNA	RoHS	10	$\pm 20\%$	0.0174	5.20	4.66	100
NS 10165T 150MNA	RoHS	15	$\pm 20\%$	0.0250	4.50	3.84	100
NS 10165T 220MNA	RoHS	22	$\pm 20\%$	0.0313	3.60	3.41	100

● NS 12555 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω] ($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 12555T 6R0NN	RoHS	6.0	$\pm 30\%$	0.0140	5.01	5.60	100
NS 12555T 100MN	RoHS	10	$\pm 20\%$	0.0175	4.73	5.04	100
NS 12555T 150MN	RoHS	15	$\pm 20\%$	0.0233	3.89	4.18	100
NS 12555T 220MN	RoHS	22	$\pm 20\%$	0.0297	3.20	3.81	100
NS 12555T 330MN	RoHS	33	$\pm 20\%$	0.0415	2.64	3.16	100
NS 12555T 470MN	RoHS	47	$\pm 20\%$	0.0551	2.23	2.70	100
NS 12555T 680MN	RoHS	68	$\pm 20\%$	0.0797	1.81	2.14	100
NS 12555T 101MN	RoHS	100	$\pm 20\%$	0.117	1.53	1.86	100
NS 12555T 151MN	RoHS	150	$\pm 20\%$	0.176	1.22	1.43	100
NS 12555T 221MN	RoHS	220	$\pm 20\%$	0.270	1.00	1.18	100
NS 12555T 331MN	RoHS	330	$\pm 20\%$	0.410	0.82	0.96	100
NS 12555T 471MN	RoHS	470	$\pm 20\%$	0.520	0.68	0.80	100
NS 12555T 681MN	RoHS	680	$\pm 20\%$	0.760	0.60	0.72	100
NS 12555T 102MN	RoHS	1000	$\pm 20\%$	1.12	0.47	0.59	100
NS 12555T 152MN	RoHS	1500	$\pm 20\%$	1.73	0.40	0.44	100

※) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20°C)

※) The temperature rise current value (Idc2) is the DC current value having temperature increase up to 40°C. (at 20°C)

※) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

PARTS NUMBER

● NS 12565 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω]($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 12565T 2R0NN	RoHS	2.0	$\pm 30\%$	0.0080	13.91	7.60	100
NS 12565T 4R2NN	RoHS	4.2	$\pm 30\%$	0.0126	10.15	5.91	100
NS 12565T 7R0NN	RoHS	7.0	$\pm 30\%$	0.0162	7.93	5.21	100
NS 12565T 100MN	RoHS	10	$\pm 20\%$	0.0199	6.96	4.75	100
NS 12565T 150MN	RoHS	15	$\pm 20\%$	0.0237	5.84	4.33	100
NS 12565T 220MN	RoHS	22	$\pm 20\%$	0.0310	4.87	3.91	100
NS 12565T 330MN	RoHS	33	$\pm 20\%$	0.0390	3.89	3.22	100
NS 12565T 470MN	RoHS	47	$\pm 20\%$	0.0575	3.34	2.78	100
NS 12565T 680MN	RoHS	68	$\pm 20\%$	0.0775	2.78	2.30	100
NS 12565T 101MN	RoHS	100	$\pm 20\%$	0.123	2.23	1.81	100
NS 12565T 151MN	RoHS	150	$\pm 20\%$	0.173	1.84	1.54	100
NS 12565T 221MN	RoHS	220	$\pm 20\%$	0.273	1.39	1.18	100

● NS 12575 type

Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	DC Resistance [Ω]($\pm 20\%$)	Rated current ※) [A]		Measuring frequency [kHz]
					Saturation current Idc1	Temperature rise current Idc2	
NS 12575T 1R2NN	RoHS	1.2	$\pm 30\%$	0.0058	18.08	9.15	100
NS 12575T 2R7NN	RoHS	2.7	$\pm 30\%$	0.0085	13.91	7.69	100
NS 12575T 3R9NN	RoHS	3.9	$\pm 30\%$	0.0099	12.52	7.38	100
NS 12575T 5R6NN	RoHS	5.6	$\pm 30\%$	0.0116	10.85	6.36	100
NS 12575T 6R8NN	RoHS	6.8	$\pm 30\%$	0.0131	10.02	5.84	100
NS 12575T 100MN	RoHS	10	$\pm 20\%$	0.0156	7.65	5.55	100
NS 12575T 150MN	RoHS	15	$\pm 20\%$	0.0184	6.54	5.22	100
NS 12575T 220MN	RoHS	22	$\pm 20\%$	0.0260	5.56	4.05	100
NS 12575T 330MN	RoHS	33	$\pm 20\%$	0.0390	4.45	3.48	100
NS 12575T 470MN	RoHS	47	$\pm 20\%$	0.0515	3.76	2.95	100
NS 12575T 680MN	RoHS	68	$\pm 20\%$	0.0720	2.78	2.49	100
NS 12575T 101MN	RoHS	100	$\pm 20\%$	0.110	2.64	2.01	100
NS 12575T 151MN	RoHS	150	$\pm 20\%$	0.161	2.09	1.51	100
NS 12575T 221MN	RoHS	220	$\pm 20\%$	0.245	1.81	1.35	100

※) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20°C)

※) The temperature rise current value (Idc2) is the DC current value having temperature increase up to 40°C. (at 20°C)

※) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

SMD POWER INDUCTORS (NS SERIES)

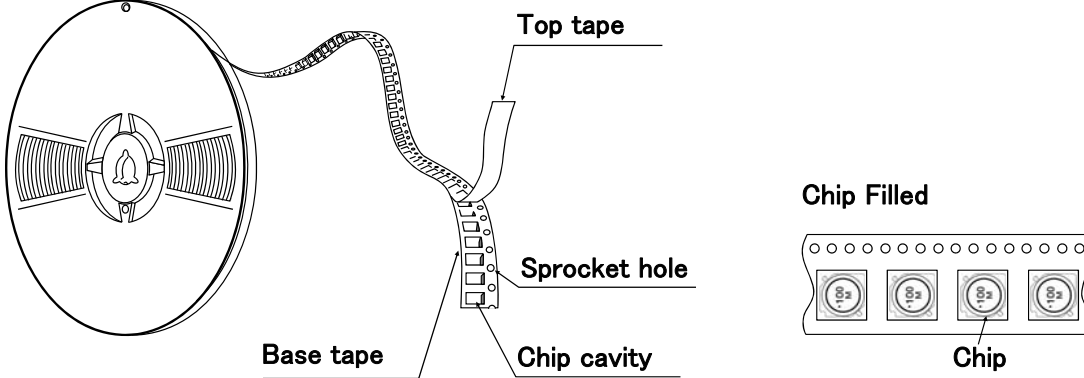
PACKAGING

① Packing Quantity

Type	Standard Quantity (1reel) [pcs]	Minimum Quantity [pcs]
	Embossed Tape	Embossed Tape
NS10145	500	2000
NS10155	500	2000
NS10165	500	2000
NS12555	500	2000
NS12565	500	2000
NS12575	500	2000

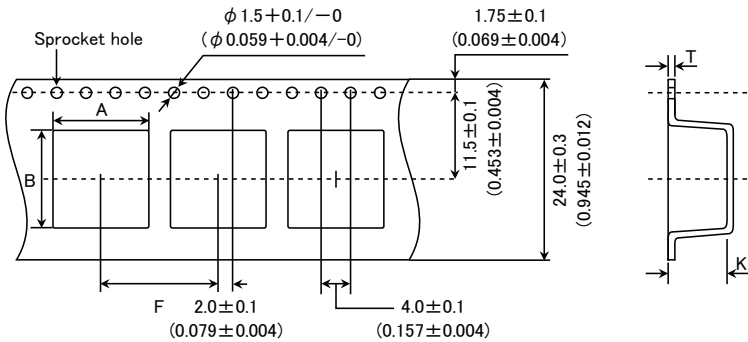
② Tape Material

● Embossed Tape



③ Taping dimensions

● Embossed tape 24mm wide (0.945 inches wide)



Type	Chip cavity		Insertion pitch	Tape thickness	
	A	B	F	T	K
NS10145	10.5 ± 0.1 (0.413 ± 0.004)	10.5 ± 0.1 (0.413 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	5.0 ± 0.1 (0.197 ± 0.004)
NS10155	10.5 ± 0.1 (0.413 ± 0.004)	10.5 ± 0.1 (0.413 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	6.0 ± 0.1 (0.236 ± 0.004)
NS10165	10.5 ± 0.1 (0.413 ± 0.004)	10.5 ± 0.1 (0.413 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	7.0 ± 0.1 (0.276 ± 0.004)
NS12555	13.0 ± 0.1 (0.512 ± 0.004)	13.0 ± 0.1 (0.512 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	6.1 ± 0.1 (0.240 ± 0.004)
NS12565	13.0 ± 0.1 (0.512 ± 0.004)	13.0 ± 0.1 (0.512 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	7.1 ± 0.1 (0.280 ± 0.004)
NS12575	13.0 ± 0.1 (0.512 ± 0.004)	13.0 ± 0.1 (0.512 ± 0.004)	16.0 ± 0.1 (0.630 ± 0.004)	0.4 ± 0.1 (0.016 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)

Unit : mm (inch)

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④ Leader and Blank portion



⑤ Reel size



Type	Reel size (Reference values)	
	ϕD	ϕd
NS10145	330 \pm 2 (12.99 \pm 0.079)	100 \pm 1 (3.937 \pm 0.039)
NS10155		
NS10165		
NS12555		
NS12565		
NS12575		

Unit: mm (inch)

⑥ Top Tape Strength

The top tape requires a peel-off force of 0.1 to 1.3N in the direction of the arrow as illustrated below.



SMD POWER INDUCTORS (NR□, NS SERIES)

RELIABILITY DATA

1. Operating Temperature Range		
Specified Value	NR30/40/50/60/80, NRS20, NRV20/30, NRH24/30 Type	-25~+120°C
	NRS40/50/60/80 Type	-25~+125°C
	NR10050 Type	-25~+105°C
	NS101, NS125 Type	-40~+125°C
Test Methods and Remarks	Including self-generated heat	
2. Storage Temperature Range		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	-40~+85°C
	NR10050 Type	
	NS101, NS125 Type	
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : -5 to 40°C for the product with taping.	
3. Rated current		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Within the specified tolerance
	NR10050 Type	
	NS101, NS125 Type	
4. Inductance		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Within the specified tolerance
	NR10050 Type	
	NS101, NS125 Type	
Test Methods and Remarks	Measuring equipment : LCR Meter (HP 4285A or equivalent) Measuring frequency : Specified frequency NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : Measuring equipment : LCR Meter (HP 4285A or equivalent) Measuring frequency : 100kHz, 1V NR10050 Type : Measuring equipment : LCR Meter (HP 4263A or equivalent) Measuring frequency : 100kHz, 1V	
5. DC Resistance		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Within the specified tolerance
	NR10050 Type	
	NS101, NS125 Type	
Test Methods and Remarks	Measuring equipment : DC ohmmeter (HIOKI 3227 or equivalent)	
6. Self resonance frequency		
Specified Value	NR30/40/50/60/80, NRV30, NRH24/30, NRS40/50/60/80 Type	Within the specified tolerance
	NR10050 Type	
	NS101, NS125 Type	-
Test Methods and Remarks	NR30/40/50/60/80, NRV30, NRH24/30, NRS40/50/60/80 Type, NR10050 Type : Measuring equipment : Impedance analyzer/material analyzer (HP4291A or equivalent HP4191A, 4192A or equivalent)	

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7. Temperature characteristic														
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 20\%$												
	NR10050 Type													
	NS101, NS125 Type	Inductance change : Within $\pm 15\%$												
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type : Measurement of inductance shall be taken at temperature range within $-25^{\circ}\text{C}\sim +85^{\circ}\text{C}$. With reference to inductance value at $+20^{\circ}\text{C}$., change rate shall be calculated.													
	NS101, NS125 Type : Measurement of inductance shall be taken at temperature range within $-40^{\circ}\text{C}\sim +125^{\circ}\text{C}$. With reference to inductance value at $+20^{\circ}\text{C}$., change rate shall be calculated. Change of maximum inductance deviation in step 1 to 5													
	<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature ($^{\circ}\text{C}$)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> </tr> <tr> <td>2</td> <td>Minimum operating temperature</td> </tr> <tr> <td>3</td> <td>20 (Standard temperature)</td> </tr> <tr> <td>4</td> <td>Maximum operating temperature</td> </tr> <tr> <td>5</td> <td>20</td> </tr> </tbody> </table>	Step	Temperature ($^{\circ}\text{C}$)	1	20	2	Minimum operating temperature	3	20 (Standard temperature)	4	Maximum operating temperature	5	20	
Step	Temperature ($^{\circ}\text{C}$)													
1	20													
2	Minimum operating temperature													
3	20 (Standard temperature)													
4	Maximum operating temperature													
5	20													

8. Resistance to flexure of substrate																																												
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	No damage																																										
	NR10050 Type	—																																										
	NS101, NS125 Type	No damage																																										
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. As illustrated below, apply force in the direction of the arrow indicating until deflection of the test board reaches to 2 mm. Test board size : $100 \times 40 \times 1.0$ Test board material : Glass epoxy-resin Solder cream thickness : 0.10mm (NR30, NRS20, NRH24/30, NRV20/30) : 0.15mm (NR40/50/60/80, NRS40/50/60, NS101/125Type)																																											
	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p>Land dimension</p>  </div> <table border="1"> <thead> <tr> <th>Type</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>NRS20, NRV20</td> <td>0.65</td> <td>0.7</td> <td>2.0</td> </tr> <tr> <td>NRH24</td> <td>0.7</td> <td>0.75</td> <td>2.0</td> </tr> <tr> <td>NR30, NRV30, NRH30</td> <td>0.8</td> <td>1.4</td> <td>2.7</td> </tr> <tr> <td>NR40, NRS40</td> <td>1.2</td> <td>1.6</td> <td>3.7</td> </tr> <tr> <td>NR50, NRS50</td> <td>1.5</td> <td>2.1</td> <td>4.0</td> </tr> <tr> <td>NR60, NRS60</td> <td>1.6</td> <td>3.1</td> <td>5.7</td> </tr> <tr> <td>NR80, NRS80</td> <td>1.8</td> <td>3.8</td> <td>7.5</td> </tr> </tbody> </table> </div> <div style="margin-left: 20px;">  <table border="1"> <thead> <tr> <th>Type</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>NS101</td> <td>2.5</td> <td>5.6</td> <td>3.2</td> </tr> <tr> <td>NS125</td> <td>2.5</td> <td>8.6</td> <td>3.2</td> </tr> </tbody> </table> </div>	Type	A	B	C	NRS20, NRV20	0.65	0.7	2.0	NRH24	0.7	0.75	2.0	NR30, NRV30, NRH30	0.8	1.4	2.7	NR40, NRS40	1.2	1.6	3.7	NR50, NRS50	1.5	2.1	4.0	NR60, NRS60	1.6	3.1	5.7	NR80, NRS80	1.8	3.8	7.5	Type	A	B	C	NS101	2.5	5.6	3.2	NS125	2.5	8.6
Type	A	B	C																																									
NRS20, NRV20	0.65	0.7	2.0																																									
NRH24	0.7	0.75	2.0																																									
NR30, NRV30, NRH30	0.8	1.4	2.7																																									
NR40, NRS40	1.2	1.6	3.7																																									
NR50, NRS50	1.5	2.1	4.0																																									
NR60, NRS60	1.6	3.1	5.7																																									
NR80, NRS80	1.8	3.8	7.5																																									
Type	A	B	C																																									
NS101	2.5	5.6	3.2																																									
NS125	2.5	8.6	3.2																																									

9. Insulation resistance : between wires		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	—
	NR10050 Type	
	NS101, NS125 Type	

10. Insulation resistance : between wire and core		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	—
	NR10050 Type	
	NS101, NS125 Type	

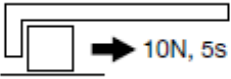
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11. Withstanding voltage : between wire and core

Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	-
	NR10050 Type	
	NS101, NS125 Type	

12. Adhesion of terminal electrode

Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Shall not come off PC board
	NR10050 Type	
	NS101, NS125 Type	

Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. Applied force : 10N to X and Y directions. Duration : 5s. Solder cream thickness : 0.10mm (NR30, NRS20, NRH24/30, NRV20/30) : 0.15mm (NR40/50/60/80, NRS40/50/60, NS101/125Type)
	 <p>NR10050 Type Applied force : 5N to X and Y directions. Duration : 5s.</p>

13. Resistance to vibration

Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.
	NR10050 Type	
	NS101, NS125 Type	

Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below test conditions.													
	<table border="1"> <tr> <td>Frequency Range</td> <td colspan="2">10~55Hz</td> </tr> <tr> <td>Total Amplitude</td> <td colspan="2">1.5mm (May not exceed acceleration 196m/s²)</td> </tr> <tr> <td>Sweeping Method</td> <td colspan="2">10Hz to 55Hz to 10Hz for 1min.</td> </tr> <tr> <td rowspan="3">Time</td> <td>X</td> <td rowspan="3">For 2 hours on each X, Y, and Z axis.</td> </tr> <tr> <td>Y</td> </tr> <tr> <td>Z</td> </tr> </table> <p>Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.</p>	Frequency Range	10~55Hz		Total Amplitude	1.5mm (May not exceed acceleration 196m/s ²)		Sweeping Method	10Hz to 55Hz to 10Hz for 1min.		Time	X	For 2 hours on each X, Y, and Z axis.	Y
Frequency Range	10~55Hz													
Total Amplitude	1.5mm (May not exceed acceleration 196m/s ²)													
Sweeping Method	10Hz to 55Hz to 10Hz for 1min.													
Time	X	For 2 hours on each X, Y, and Z axis.												
	Y													
	Z													

14. Solderability

Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	At least 90% of surface of terminal electrode is covered by new solder.
	NR10050 Type	
	NS101, NS125 Type	

Test Methods and Remarks	The test samples shall be dipped in flux, and then immersed in molten solder as shown in below table. Flux : Methanol solution containing rosin 25%. NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type			
	<table border="1"> <tr> <td>Solder Temperature</td> <td>245\pm5$^{\circ}$C</td> </tr> <tr> <td>Time</td> <td>5\pm1.0 sec.</td> </tr> </table> <p>※Immersion depth : All sides of mounting terminal shall be immersed.</p>	Solder Temperature	245 \pm 5 $^{\circ}$ C	Time
Solder Temperature	245 \pm 5 $^{\circ}$ C			
Time	5 \pm 1.0 sec.			

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15. Resistance to soldering heat		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.
	NR10050 Type	
	NS101, NS125 Type	
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : The test sample shall be exposed to reflow oven at $230\pm 5^{\circ}\text{C}$ for 40 seconds, with peak temperature at $260\pm 5^{\circ}\text{C}$ for 5 seconds, 2 times. NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NS101/125 Type Test board material : Glass epoxy-resin Test board thickness : 1.0mm NR10050 Type Test board material : Glass epoxy-resin Test board thickness : 1.6mm Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.	

16. Thermal shock																				
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.																		
	NR10050 Type																			
	NS101, NS125 Type																			
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. The test samples shall be placed at specified temperature for specified time by step 1 to step 4 as shown in below table in sequence. The temperature cycle shall be repeated 100 cycles. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th colspan="3">Conditions of 1 cycle</th> </tr> <tr> <th>Step</th> <th>Temperature ($^{\circ}\text{C}$)</th> <th>Duration (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40 ± 3</td> <td>30 ± 3</td> </tr> <tr> <td>2</td> <td>Room temperature</td> <td>Within 3</td> </tr> <tr> <td>3</td> <td>$+85\pm 2$</td> <td>30 ± 3</td> </tr> <tr> <td>4</td> <td>Room temperature</td> <td>Within 3</td> </tr> </tbody> </table> Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		Conditions of 1 cycle			Step	Temperature ($^{\circ}\text{C}$)	Duration (min)	1	-40 ± 3	30 ± 3	2	Room temperature	Within 3	3	$+85\pm 2$	30 ± 3	4	Room temperature	Within 3
Conditions of 1 cycle																				
Step	Temperature ($^{\circ}\text{C}$)	Duration (min)																		
1	-40 ± 3	30 ± 3																		
2	Room temperature	Within 3																		
3	$+85\pm 2$	30 ± 3																		
4	Room temperature	Within 3																		

17. Damp heat								
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.						
	NR10050 Type		—					
	NS101, NS125 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.						
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity as shown in below table. <table border="1" style="margin: 10px auto;"> <tbody> <tr> <td>Temperature</td> <td>$60\pm 2^{\circ}\text{C}$</td> </tr> <tr> <td>Humidity</td> <td>90~95%RH</td> </tr> <tr> <td>Time</td> <td>500+24/-0 hour</td> </tr> </tbody> </table> Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		Temperature	$60\pm 2^{\circ}\text{C}$	Humidity	90~95%RH	Time	500+24/-0 hour
Temperature	$60\pm 2^{\circ}\text{C}$							
Humidity	90~95%RH							
Time	500+24/-0 hour							

18. Loading under damp heat										
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.								
	NR10050 Type									
	NS101, NS125 Type									
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity and applied the rated current continuously as shown in below table. <table border="1" style="margin: 10px auto;"> <tbody> <tr> <td>Temperature</td> <td>$60\pm 2^{\circ}\text{C}$</td> </tr> <tr> <td>Humidity</td> <td>90~95%RH</td> </tr> <tr> <td>Applied current</td> <td>Rated current</td> </tr> <tr> <td>Time</td> <td>500+24/-0 hour</td> </tr> </tbody> </table> Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		Temperature	$60\pm 2^{\circ}\text{C}$	Humidity	90~95%RH	Applied current	Rated current	Time	500+24/-0 hour
Temperature	$60\pm 2^{\circ}\text{C}$									
Humidity	90~95%RH									
Applied current	Rated current									
Time	500+24/-0 hour									

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19. Low temperature life test		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.
	NR10050 Type	
	NS101, NS125 Type	
Test Methods and Remarks	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type : The test samples shall be soldered to the test board by the reflow. After that, the test samples shall be placed at test conditions as shown in below table.	
	Temperature	$-40 \pm 2^{\circ}\text{C}$
	Time	$500 + 24 / - 0$ hour
Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		
20. High temperature life test		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	—
	NR10050 Type	—
	NS101, NS125 Type	—
Test Methods and Remarks	NR10050 Type :	
	Temperature	$105 \pm 3^{\circ}\text{C}$
	Time	$500 + 24 / - 0$ hour
Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		
21. Loading at high temperature life test		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.
	NR10050 Type	—
	NS101, NS125 Type	Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.
Test Methods and Remarks	NR30/40/50/60/80, NRV30, NRH24/30, NRS40/50/60/80 Type, NS12555, NS12565, NS12575 Type : The test samples shall be soldered to the test board by the reflow soldering.	
	Temperature	$85 \pm 2^{\circ}\text{C}$
	Applied current	Rated current
	Time	$500 + 24 / - 0$ hour
Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.		
22. Standard condition		
Specified Value	NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type	Standard test condition : Unless otherwise specified, temperature is $20 \pm 15^{\circ}\text{C}$ and $65 \pm 20\%$ of relative humidity. When there is any question concerning measurement result: In order to provide correlation data, the test shall be condition of $20 \pm 2^{\circ}\text{C}$ of temperature, $65 \pm 5\%$ relative humidity. Inductance is in accordance with our measured value.
	NR10050 Type	
	NS101, NS125 Type	

SMD POWER INDUCTORS (NR□, NS SERIES)

PRECAUTIONS

1. Circuit Design

Precautions

◆ Operating environment

- The products described in this specification are intended for use in general electronic equipment, (office supply equipment, telecommunications systems, measuring equipment, and household equipment). They are not intended for use in mission-critical equipment or systems requiring special quality and high reliability (traffic systems, safety equipment, aerospace systems, nuclear control systems and medical equipment including life-support systems,) where product failure might result in loss of life, injury or damage. For such uses, contact TAIYO YUDEN Sales Department in advance.

2. PCB Design

Precautions

◆ Land pattern design

- Please refer to a recommended land pattern.
- There is stress, which has been caused by distortion of a PCB, to the inductor.
(NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type)
- Please consider the arrangement of parts on a PCB. (NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type)

Technical considerations

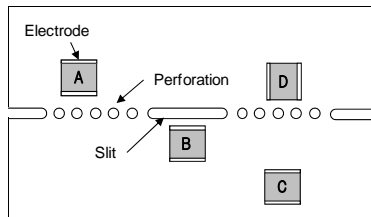
◆ Land pattern design

Surface Mounting

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to this products is reflow soldering only.
- Please use the recommended land pattern shown as below. Electrical characteristics and the mounting ability of the product are being considered in the recommended land pattern. If a PCB is designed with other dimensions, defective soldering and stress to a product may occur due to misalignment. The performance of the product may not be brought out. If an adopted land pattern is different from the recommended land pattern, stress to the product will increase. It may cause cracks or defective electrical characteristics of the product. Please conduct validation completely before studying adoption of this product and please judge the pros and cons of adoption of this product with taking on responsibility.
(NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type)
- As coefficients of thermal expansion between an inductor and a PCB differs, cracks may occur on a ferrite core when thermal stress is applied to them after mounting an inductor. (Please refer to the drawings below.) Please conduct validation completely before studying adoption of this product and please judge the pros and cons of adoption of this product with taking on responsibility.
(NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type)



- SMD inductors should be located to minimize any possible mechanical stresses from board warp or deflection. When splitting the PCB board after mounting inductors and other components, care is required so as not to give any stresses of deflection or twisting to the board.
(NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type)



A product tends to undergo stress in order "A>C>B≡D".
Please consider the layouts of a product to minimize any stresses.

3. Considerations for automatic placement	
Precautions	<ul style="list-style-type: none"> ◆Adjustment of mounting machine <ol style="list-style-type: none"> 1. Excessive impact load should not be imposed on the products when mounting onto the PC boards. 2. Mounting and soldering conditions should be checked beforehand.
Technical considerations	<ul style="list-style-type: none"> ◆Adjustment of mounting machine <ol style="list-style-type: none"> 1. When installing products, care should be taken not to apply distortion stress as it may deform the products. 2. Stress may be applied to a product with a warp or a twist in handling of the product. Please conduct validation completely before studying adoption of this product and please judge the pros and cons of adoption of this product with taking on responsibility. (NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/30/40/50/60/80 Type) <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><Wrap></p>  </div> <div style="text-align: center;"> <p><Twist></p>  </div> </div>

4. Soldering	
Precautions	<ul style="list-style-type: none"> ◆Reflow soldering <ol style="list-style-type: none"> 1. Please contact any of our offices for a reflow soldering, and refer to the recommended condition specified. 2. The product shall be used reflow soldering only. 3. Please do not add any stress to a product until it returns in normal temperature after reflow soldering. ◆Lead free soldering <ol style="list-style-type: none"> 1. When using products with lead free soldering, we request to use them after confirming adhesion, temperature of resistance to soldering heat, soldering etc sufficiently. ◆Recommended conditions for using a soldering iron (NR10050 Type) <ul style="list-style-type: none"> • Put the soldering iron on the land-pattern. • Soldering iron's temperature – Below 350°C • Duration – 3 seconds or less • The soldering iron should not directly touch the inductor.
Technical considerations	<ul style="list-style-type: none"> ◆Reflow soldering <ol style="list-style-type: none"> 1. If products are used beyond the range of the recommended conditions, heat stresses may deform the products, and consequently degrade the reliability of the products. <ul style="list-style-type: none"> •NR30/40/50/60/80, NRV20/30, NRH24/30, NRS20/40/50/60/80 Type, NR10050 Type, NS101/125 Type <p>Recommended reflow condition (Pb free solder)</p> 

5. Cleaning	
Precautions	<ul style="list-style-type: none"> ◆Cleaning conditions <ol style="list-style-type: none"> 1. Washing by supersonic waves shall be avoided.
Technical considerations	<ul style="list-style-type: none"> ◆Cleaning conditions <ol style="list-style-type: none"> 1. If washed by supersonic waves, the products might be broken.

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6. Handling	
Precautions	<ul style="list-style-type: none"> ◆ Handling <ol style="list-style-type: none"> 1. Keep the product away from all magnets and magnetic objects. ◆ Breakaway PC boards (splitting along perforations) <ol style="list-style-type: none"> 1. When splitting the PC board after mounting product, care should be taken not to give any stresses of deflection or twisting to the board. 2. Board separation should not be done manually, but by using the appropriate devices. ◆ Mechanical considerations <ol style="list-style-type: none"> 1. Please do not give the product any excessive mechanical shocks. 2. Please do not add any shock and power to a product in transportation. ◆ Pick-up pressure <ol style="list-style-type: none"> 1. Please do not push to add any pressure to a winding part. Please do not give any shock and push into a ferrite core exposure part. ◆ Packing <ol style="list-style-type: none"> 1. Please avoid accumulation of a packing box as much as possible.
Technical considerations	<ul style="list-style-type: none"> ◆ Handling <ol style="list-style-type: none"> 1. There is a case that a characteristic varies with magnetic influence. ◆ Breakaway PC boards (splitting along perforations) <ol style="list-style-type: none"> 1. The position of the product on PCBs shall be carefully considered to minimize the stress caused from splitting of the PCBs. ◆ Mechanical considerations <ol style="list-style-type: none"> 1. There is a case to be damaged by a mechanical shock. 2. There is a case to be broken by the handling in transportation. ◆ Pick-up pressure <ol style="list-style-type: none"> 1. Damage and a characteristic can vary with an excessive shock or stress. ◆ Packing <ol style="list-style-type: none"> 1. If packing boxes are accumulated, that could cause a deformation on packing tapes or a damage on the products.
7. Storage conditions	
Precautions	<ul style="list-style-type: none"> ◆ Storage <ol style="list-style-type: none"> 1. To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled. <ul style="list-style-type: none"> ▪ Recommended conditions <ul style="list-style-type: none"> Ambient temperature : $-5\sim 40^{\circ}\text{C}$ Humidity : Below 70% RH ▪ The ambient temperature must be kept below 30°C. Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. <ul style="list-style-type: none"> For this reason, product should be used within 6 months from the time of delivery. In case of storage over 6 months, solderability shall be checked before actual usage.
Technical considerations	<ul style="list-style-type: none"> ◆ Storage <ol style="list-style-type: none"> 1. Under a high temperature and humidity environment, problems such as reduced solderability caused by oxidation of terminal electrodes and deterioration of taping/packaging materials may take place.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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