NAS Series

SMD Power Inductors

(NAS0615)

ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance L(μH)±20[1]	DCR (Ω) MAX.	IDC (A) MAX.[2]
NAS0615T-1R6M-N	1.6	0.045	2.5
NAS0615T-2R2M-N	2.2	0.065	2.0
NAS0615T-2R6M-N	2.6	0.075	1.8
NAS0615T-3R0M-N	3.0	0.085	1.7
NAS0615T-3R3M-N	3.3	0.096	1.6
NAS0615T-3R6M-N	3.6	0.110	1.5
NAS0615T-4R7M-N	4.7	0.130	2.0

1. Test Frequency 100KHZ / 0.1Vrms.
2. Inductance drops 20%(typ) at rated Isat.
3. Operating Temperature Range -40°C to 85°C
4. Inductance : M : ±20%

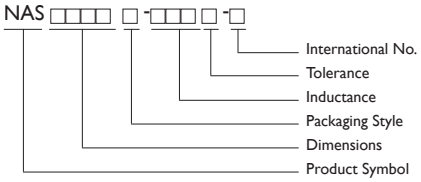
FEATURES

- Magentically shielded and low radiation
- Very low DCR & better Q factor
- Flat bottom for reliable surface mounting
- Density design, small size, and low cost

APPLICATIONS

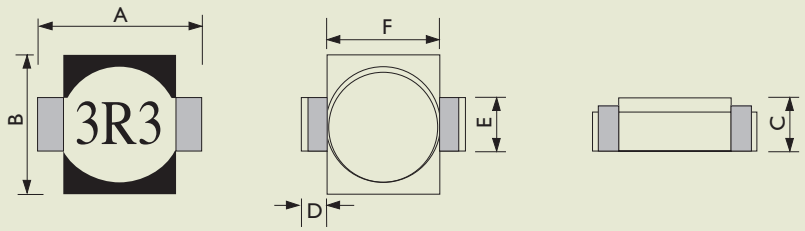
- Mobile telephone.
- Step-up or step-down converters.
- Flash memory.

PRODUCT IDENTIFICATION



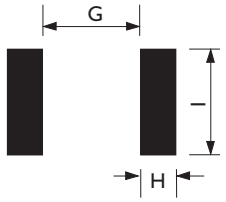
SHAPE AND DIMENSIONS

Dimensions : mm



TYPE	A	B	C	D	E	F	G	H	I
NAS0615	6.50MAX	5.3±0.3	1.5MAX	0.9	2.6	4.5	4.06	1.40	3.56

LAND PATTERNS PCB



SMD Power Inductors

NAS Series

(NAS0620)

FEATURES

- Magentically shielded and low radiation
- Very low DCR & better Q factor
- Flat bottom for reliable surface mounting
- Density design, small size, and low cost

APPLICATIONS

- Mobile telephone.
- Step-up or step-down converters.
- Flash memory.

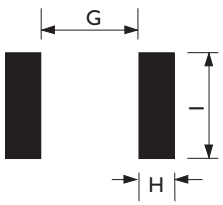
PRODUCT IDENTIFICATION

NAS □□□□ □ -□□□ □ -□

- International No.
- Tolerance
- Inductance
- Packaging Style
- Dimensions
- Product Symbol

LAND PATTERNS PCB

Dimensions : mm



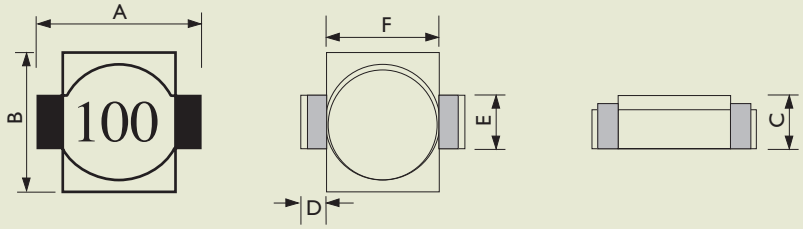
ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	L(μH)±20%[1]	Q MIN	DCR (Ω) max	SRF typ(MHz)	IDC (A) MAX.[2]
NAS0620T-1R0M-N	1.00	30 @200KHZ	0.040	250	3.00
NAS0620T-1R5M-N	1.50	30 @200KHZ	0.045	125	2.80
NAS0620T-2R2M-N	2.20	40 @200KHZ	0.05	120	1.80
NAS0620T-3R2M-N	3.30	40 @200KHZ	0.055	120	1.60
NAS0620T-4R7M-N	4.70	40 @200KHZ	0.060	105	1.40
NAS0620T-6R8M-N	6.80	40 @200KHZ	0.065	50	1.20
NAS0620T-100M-N	10.0	40 @200KHZ	0.075	38	1.00
NAS0620T-150M-N	15.0	40 @200KHZ	0.090	33	0.80
NAS0620T-220M-N	22.0	40 @200KHZ	0.110	25	0.70
NAS0620T-330M-N	33.0	40 @200KHZ	0.190	20	0.60
NAS0620T-470M-N	47.0	40 @200KHZ	0.230	20	0.50
NAS0620T-680M-N	68.0	40 @200KHZ	0.290	15	0.40
NAS0620T-101M-N	100	40 @200KHZ	0.480	10	0.30
NAS0620T-151M-N	150	40 @200KHZ	0.590	9	0.26
NAS0620T-221M-N	220	40 @200KHZ	0.770	6	0.22
NAS0620T-331M-N	330	40 @200KHZ	1.400	5	0.20
NAS0620T-471M-N	470	40 @200KHZ	1.800	4	0.19
NAS0620T-681M-N	680	40 @200KHZ	2.200	3	0.18
NAS0620T-102M-N	1000	40 @200KHZ	3.400	2	0.15
NAS0620T-152M-N	1500	50 @200KHZ	4.200	2	0.12
NAS0620T-222M-N	2200	50 @200KHZ	8.500	2	0.10
NAS0620T-332M-N	3300	50 @200KHZ	11.00	1	0.08
NAS0620T-472M-N	4700	50 @200KHZ	13.90	1	0.06
NAS0620T-682M-N	6800	50 @200KHZ	25.00	1	0.04
NAS0620T-103M-N	10000	50 @200KHZ	32.80	0.8	0.02

1. Inductance tested at 0.1Vrms, 100KHZ..
2. 30°C Temperature rise.
3. Operating Temperature Range -40°C to 85°C
4. Electrlcal specIfication at 25°C
5. Inductance : M : ±20%

SHAPE AND DIMENSIONS

Dimensions : mm



TYPE	A	B	C	D	E	F	G	H	I
NAS0620	6.50MAX	5.3±0.3	2.0MAX	0.9	2.6	4.5	4.06	1.40	3.56

NAS Series

SMD Power Inductors

ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	L(μH)±20%[1]	DCR (Ω) max	Insulation core-winding(MΩ)	SRF typ(MHz)	IDC (A) MAX.[2]
NAS0620BLT-101M-N	0.10	0.95	>10	12	220
NAS0620BLT-151M-N	0.15	1.40	>10	10	200
NAS0620BLT-221M-N	0.22	1.70	>10	8	180
NAS0620BLT-331M-N	0.33	2.20	>10	6	160
NAS0620BLT-471M-N	0.47	3.80	>10	5	140
NAS0620BLT-681M-N	0.68	4.90	>10	4	120
NAS0620BLT-102M-N	1.00	9.00	>10	2	100
NAS0620BLT-152M-N	1.50	11.0	>10	1	80
NAS0620BLT-222M-N	2.20	19.0	>10	1	50
NAS0620BLT-332M-N	3.30	24.0	>10	1	40
NAS0620BLT-472M-N	4.70	30.0	>10	1	30
NAS0620BLT-682M-N	6.80	56.0	>10	0.9	20
NAS0620BLT-103M-N	10.0	74.0	>10	0.9	10

1. Inductance tested at 0.1Vrms, 100KHZ..
2. 30°C Temperature rise.
3. Operating Temperature Range -40°C to 85°C
4. Electrlcal speclfication at 25°C
5. Inductance : M : ±20%

(NAS0620BL)

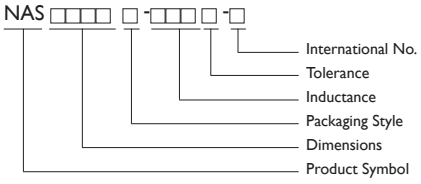
FEATURES

- Magentically shielded and low radiation
- Very low DCR & better Q factor
- Flat bottom for reliable surface mounting
- Density design, small size, and low cost

APPLICATIONS

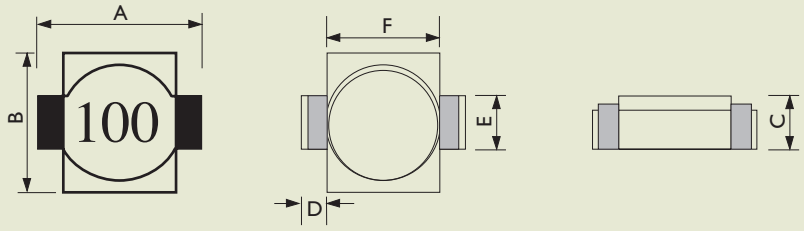
- Mobile telephone.
- Step-up or step-down converters.
- Flash memory.

PRODUCT IDENTIFICATION



SHAPE AND DIMENSIONS

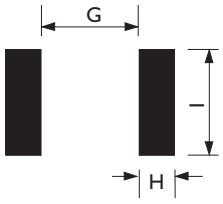
Dimensions : mm



TYPE	A	B	C	D	E	F	G	H	I
NAS0620BL	6.50MAX	5.3±0.3	2.0MAX	0.9	2.6	4.5	4.06	1.40	3.56

LAND PATTERNS PCB

Dimensions : mm



SMD Power Inductors

NAS Series

(NAS0630)

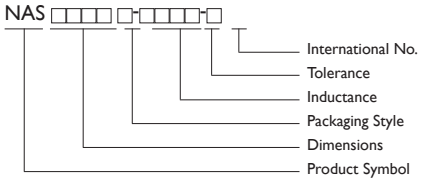
FEATURES

- Magentically shielded and low radiation
- Very low DCR & better Q factor
- Flat bottom for reliable surface mounting
- Density design, small size, and low cost

APPLICATIONS

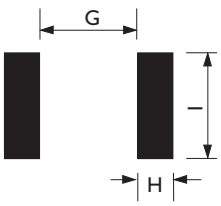
- Mobile telephone.
- Step-up or step-down converters.
- Flash memory.

PRODUCT IDENTIFICATION



LAND PATTERNS PCB

Dimensions : mm



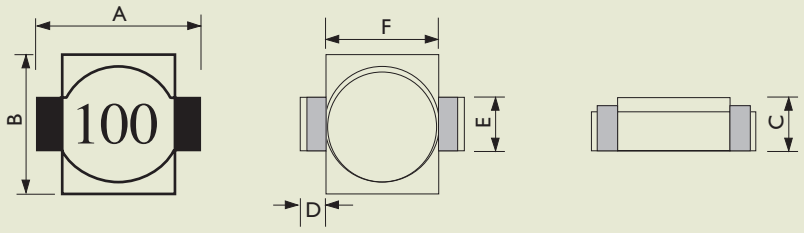
ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	L(μH)±20%[1]	Q MIN	DCR (Ω) max	SRF typ(MHz)	IDC (A) MAX.[2]
NAS0630T-1R0M-N	1.00	20 @200KHZ	0.042	250	3.00
NAS0630T-1R5M-N	1.50	30 @200KHZ	0.045	125	2.80
NAS0630T-2R2M-N	2.20	40 @200KHZ	0.050	120	1.80
NAS0630T-3R2M-N	3.30	40 @200KHZ	0.055	120	1.60
NAS0630T-4R7M-N	4.70	40 @200KHZ	0.060	105	1.40
NAS0630T-6R8M-N	6.80	40 @200KHZ	0.065	50	1.20
NAS0630T-100M-N	10.0	40 @200KHZ	0.075	38	1.00
NAS0630T-150M-N	15.0	40 @100KHZ	0.090	33	0.80
NAS0630T-220M-N	22.0	40 @100KHZ	0.110	25	0.70
NAS0630T-330M-N	33.0	40 @100KHZ	0.190	20	0.60
NAS0630T-470M-N	47.0	40 @100KHZ	0.230	20	0.50
NAS0630T-680M-N	68.0	40 @100KHZ	0.290	15	0.40
NAS0630T-101M-N	100	40 @100KHZ	0.480	10	0.30
NAS0630T-151M-N	150	40 @100KHZ	0.590	9	0.26
NAS0630T-221M-N	220	40 @100KHZ	0.770	6	0.22
NAS0630T-331M-N	330	40 @100KHZ	1.400	5	0.20
NAS0620T-471M-N	470	40 @100KHZ	1.800	4	0.19
NAS0630T-681M-N	680	40 @100KHZ	2.200	3	0.18
NAS0630T-102M-N	1000	40 @100KHZ	3.400	2	0.15
NAS0630T-152M-N	1500	50 @100KHZ	4.200	2	0.12
NAS0630T-222M-N	2200	50 @100KHZ	8.500	2	0.10
NAS0630T-332M-N	3300	50 @100KHZ	11.00	1	0.08
NAS0630T-472M-N	4700	50 @100KHZ	13.90	1	0.06
NAS0630T-682M-N	6800	50 @100KHZ	25.00	1	0.04
NAS0630T-103M-N	10000	50 @100KHZ	32.80	0.8	0.02

1. Inductance tested at 0.1Vrms, 100KHZ..
2. 30°C Temperature rise.
3. Operating Temperature Range -40°C to 85°C
4. Electrical specification at 25°C
5. Inductance : M : ±20%

SHAPE AND DIMENSIONS

Dimensions : mm



TYPE	A	B	C	D	E	F	G	H	I
NAS0630	6.50MAX	5.3±0.3	3.0MAX	0.9	2.6	4.5	4.0	1.40	3.56