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Data Sheet

Customer :

Product : SMD Power Inductors Hi-Q HVTNR SERIES

Size : 3015 、 4018 、 5020 、 6045 、 8040

Issued Date :

Edition :

Record of change

Date	Ver.	Description	Page

VENDOR :

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● **Features**

1. Small and Low profile inductor.
2. It corresponds to High current.
3. Simple and original magnetic shield structure.
4. Durable structure against dropping impact.
5. Applicable at high frequency up to 1MHz

RoHS Compliant.

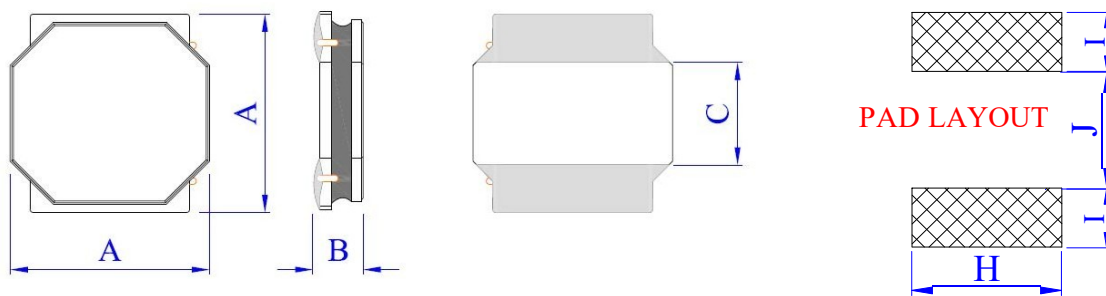
AEC-Q200 qualified.



● **Applications**

- Engine and transmission control units
- Diesel injection drivers
- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors
 - Windshield wipers
 - Power seats
 - Power mirrors
 - Heating and ventilation blowers
 - HID lighting
 - LED drivers

● **Shape & Dimensions**



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
HVTNR3015MA	3.0±0.2	1.5 MAX.	1.0 REF.	2.7	0.8	1.4
HVTNR4018MA	4.0±0.2	1.8±0.2	1.4 REF.	3.7	1.2	1.6
HVTNR5020MA	5.0±0.2	2.0±0.2	2.0 REF.	4.7	1.4	2.4

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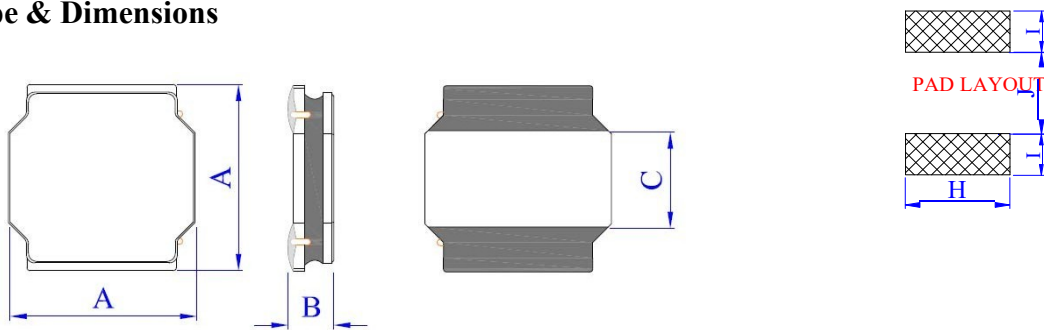
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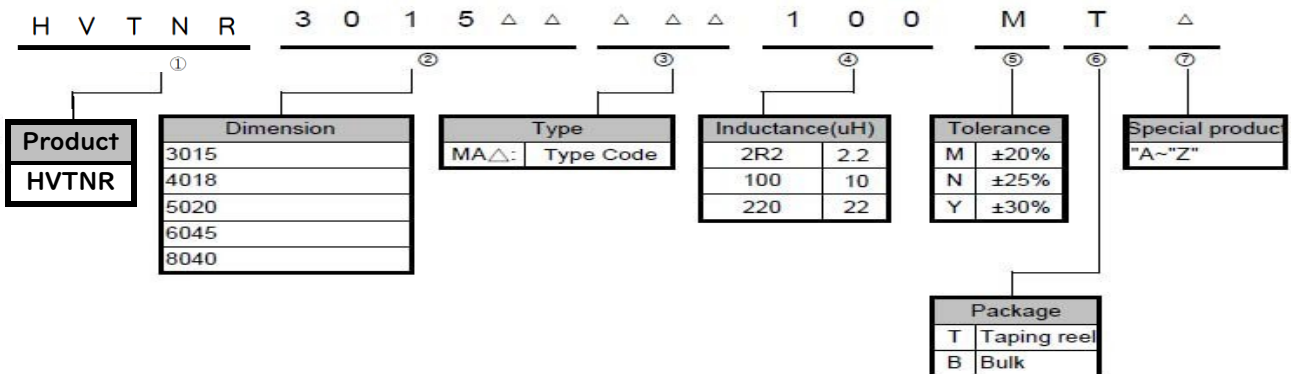


● **Shape & Dimensions**



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
HVTNR6045MA	6.0 ± 0.2	4.5+0.2/-0.3	2.7 REF.	5.7	1.6	3.1
HVTNR8040MA	8.0 ± 0.2	4.0+0.2/-0.3	3.1 ± 0.3	7.7	2.3	3.8

■ **PRODUCT IDENTIFICATION**



◆ HVTNR3015MA Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ)±30	Saturation Current (A) Max.	Temp. Rise current (A) Max.
HVTNR3015MAR47□T	0.47	Y	1M	36	4.23	3.60
HVTNR3015MA1R0□T	1.0	Y	1M	54	3.06	2.70
HVTNR3015MA1R5□T	1.5	Y	1M	63	2.70	2.34
HVTNR3015MA2R2□T	2.2	Y	1M	90	2.07	1.80
HVTNR3015MA3R3□T	3.3	Y	1M	125	1.71	1.62
HVTNR3015MA4R7□T	4.7	Y	1M	170	1.42	1.36
HVTNR3015MA6R8□T	6.8	M,N	1M	235	1.20	1.17
HVTNR3015MA100□T	10	M,N	1M	360	0.95	0.90
HVTNR3015MA150□T	15	M,N	1M	550	0.81	0.72
HVTNR3015MA220□T	22	M,N	1M	770	0.68	0.58

NOTE :

* The operating temperature range is -40°C to +125°C(Including self-temperature rise)

* □ Tolerance M: ±20%, N: ±25%, Y: ±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is $\Delta T \cong 40^\circ\text{C}$.(Ta=25°C)

◆ HVTNR4018MA Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ)±30	Saturation Current (A) Max.	Temp. Rise current (A) Max.
HVTNR4018MA1R0□T	1.0	Y	1M	26.5	3.78	3.42
HVTNR4018MA1R5□T	1.5	Y	1M	37.0	3.15	2.88
HVTNR4018MA2R2□T	2.2	Y	1M	47.0	2.70	2.43
HVTNR4018MA3R3□T	3.3	Y	1M	62.5	2.07	1.89
HVTNR4018MA4R7□T	4.7	Y	1M	80.0	1.80	1.62
HVTNR4018MA6R8□T	6.8	M,N	1M	115.0	1.35	1.21
HVTNR4018MA100□T	10	M,N	1M	185.0	1.26	1.08

NOTE :

* The operating temperature range is -40°C to +125°C(Including self-temperature rise)

* □ Tolerance M: ±20%, N: ±25%, Y: ±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is $\Delta T \cong 40^\circ\text{C}$.(Ta=25°C)

◆ HVTNR5020MA Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ)±30	Saturation Current (A) Max.	Temp. Rise current (A) Max.
HVTNR5020MA1R0□T	1.0	Y	1M	18.0	5.40	3.69
HVTNR5020MA1R5□T	1.5	Y	1M	23.0	4.41	3.15
HVTNR5020MA2R2□T	2.2	Y	1M	30.0	3.60	2.97
HVTNR5020MA3R3□T	3.3	Y	1M	50.0	2.70	2.50
HVTNR5020MA4R7□T	4.7	Y	1M	60.0	2.43	1.98
HVTNR5020MA6R8□T	6.8	M,N	1M	93.0	1.98	1.62
HVTNR5020MA100□T	10	M,N	1M	125.0	1.62	1.44
HVTNR5020MA150□T	15	M,N	1M	195.0	1.26	1.08
HVTNR5020MA220□T	22	M,N	1M	265.0	1.08	0.90

NOTE :

- * The operating temperature range is -40°C to +125°C(Including self-temperature rise)
- * □ Tolerance M: ±20%, N: ±25%, Y: ±30%
- * Isat:For Inductance drop 30% from its value without current.
- * Irms:The value of D.C current when the temperature rise is $\Delta T \cong 40^\circ\text{C}$.(Ta=25°C)

◆ HVTNR6045MA Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ)±30	Saturation Current (A) Max.	Temp. Rise current (A) Max.
HVTNR6045MA1R5□T	1.5	Y	1M	12.0	10.80	5.94
HVTNR6045MA2R2□T	2.2	Y	1M	18.0	8.55	4.68
HVTNR6045MA3R3□T	3.3	Y	1M	22.0	7.02	3.96
HVTNR6045MA4R7□T	4.7	Y	1M	30.0	6.12	3.60
HVTNR6045MA6R8□T	6.8	M,N	1M	42.0	5.13	2.97
HVTNR6045MA100□T	10	M,N	1M	60.0	4.14	2.34
HVTNR6045MA150□T	15	M,N	1M	90.0	3.42	1.98
HVTNR6045MA220□T	22	M,N	1M	130.0	2.97	1.71

NOTE :

- * The operating temperature range is -40°C to +125°C(Including self-temperature rise)
- * □ Tolerance M: ±20%, N: ±25%, Y: ±30%
- * Isat:For Inductance drop 30% from its value without current.
- * Irms:The value of D.C current when the temperature rise is $\Delta T \cong 40^\circ\text{C}$.(Ta=25°C)

◆ HVTNR8040MA Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ)±30	Saturation Current (A) Max.	Temp. Rise current (A) Max.
HVTNR8040MA1R0□T	1.0	Y	1M	7.5	12.15	7.29
HVTNR8040MA1R5□T	1.5	Y	1M	9.7	9.45	6.93
HVTNR8040MA2R2□T	2.2	Y	1M	12.0	8.73	6.48
HVTNR8040MA3R3□T	3.3	Y	1M	17.0	7.20	5.31
HVTNR8040MA4R7□T	4.7	Y	1M	20.0	6.12	4.95
HVTNR8040MA6R8□T	6.8	M,N	1M	29.0	5.22	4.41
HVTNR8040MA100□T	10	M,N	1M	38.0	4.50	3.42
HVTNR8040MA150□T	15	M,N	1M	57.0	3.60	2.88
HVTNR8040MA220□T	22	M,N	1M	82.0	3.06	2.43

NOTE :

* The operating temperature range is -40°C to +125°C(Including self-temperature rise)

* □ Tolerance M: ±20%, N: ±25%, Y: ±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.(Ta=25°C)

***** If you have any request not find from above datas, please contact our sales for further information, we may do our best to meet your request.***