



**Chip Inductor ALTI Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



Noise  
Suppression

Shield

Multilayer

Ceramic

High  
Frequency

**Part Numbering**

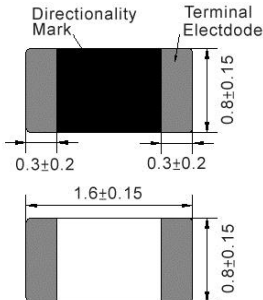
ALTI	160808	1N0	S
Series Name	Dimensions Code (mm)	Inductance (nH)	Tolerance
	160808 1.6x0.8x0.8	1N0 1.0	S ±0.3nH
		10N 10	J ±5%

This specification applies to Wire Wound Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.



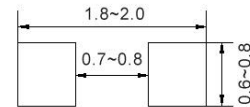
**ALTI-160808 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	IDC (mA)Max.	Tolerance (±%)
ALTI-160808-1N0□	1.0	100 MHz,200 mV	8	10000	0.10	600	±0.3nH
ALTI-160808-1N2□	1.2	100 MHz,200 mV	8	10000	0.10	600	±0.3nH
ALTI-160808-1N5□	1.5	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ALTI-160808-1N6□	1.6	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ALTI-160808-1N8□	1.8	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ALTI-160808-2N2□	2.2	100 MHz,200 mV	8	7200	0.10	600	±0.3nH
ALTI-160808-2N7□	2.7	100 MHz,200 mV	10	6200	0.10	600	±0.3nH
ALTI-160808-3N0□	3.0	100 MHz,200 mV	10	5200	0.12	600	±0.3nH
ALTI-160808-3N3□	3.3	100 MHz,200 mV	10	5200	0.12	600	±0.3nH
ALTI-160808-3N6□	3.6	100 MHz,200 mV	10	5000	0.14	600	±0.3nH
ALTI-160808-3N9□	3.9	100 MHz,200 mV	10	5000	0.14	600	±0.3nH
ALTI-160808-4N3□	4.3	100 MHz,200 mV	10	4750	0.16	600	±0.3nH
ALTI-160808-4N7□	4.7	100 MHz,200 mV	10	4750	0.16	600	±0.3nH
ALTI-160808-5N1□	5.1	100 MHz,200 mV	10	4100	0.18	600	±0.3nH
ALTI-160808-5N6□	5.6	100 MHz,200 mV	10	4100	0.18	600	±0.3nH
ALTI-160808-6N2□	6.2	100 MHz,200 mV	10	3750	0.22	600	±0.3nH
ALTI-160808-6N8□	6.8	100 MHz,200 mV	10	3750	0.22	600	5
ALTI-160808-7N5□	7.5	100 MHz,200 mV	10	3300	0.24	600	5
ALTI-160808-8N2□	8.2	100 MHz,200 mV	10	3300	0.24	600	5
ALTI-160808-10N□	10	100 MHz,200 mV	12	3000	0.26	600	5
ALTI-160808-12N□	12	100 MHz,200 mV	12	2600	0.28	600	5
ALTI-160808-15N□	15	100 MHz,200 mV	12	2500	0.32	600	5
ALTI-160808-16N□	16	100 MHz,200 mV	12	2400	0.35	600	5
ALTI-160808-18N□	18	100 MHz,200 mV	12	2400	0.35	600	5
ALTI-160808-22N□	22	100 MHz,200 mV	12	2000	0.40	500	5
ALTI-160808-27N□	27	100 MHz,200 mV	12	1900	0.45	500	5
ALTI-160808-33N□	33	100 MHz,200 mV	12	1600	0.55	400	5
ALTI-160808-39N□	39	100 MHz,200 mV	12	1400	0.60	400	5
ALTI-160808-47N□	47	100 MHz,200 mV	12	1300	0.70	400	5
ALTI-160808-56N□	56	100 MHz,200 mV	12	1100	0.75	400	5
ALTI-160808-62N□	62	100 MHz,200 mV	12	1050	0.85	400	5
ALTI-160808-68N□	68	100 MHz,200 mV	12	1050	0.85	400	5
ALTI-160808-75N□	75	100 MHz,200 mV	12	900	1.00	300	5
ALTI-160808-82N□	82	100 MHz,200 mV	12	900	1.00	300	5

**Note: When ordering, please specify tolerance code. Tolerance: S=±0.3nH / J=±5%**

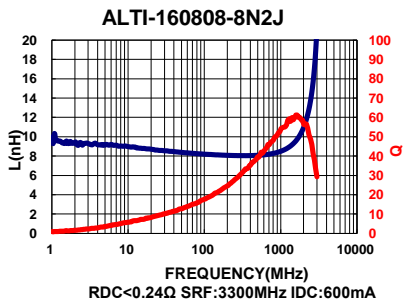
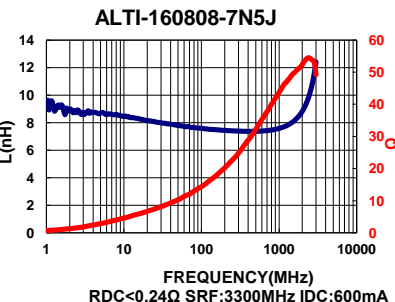
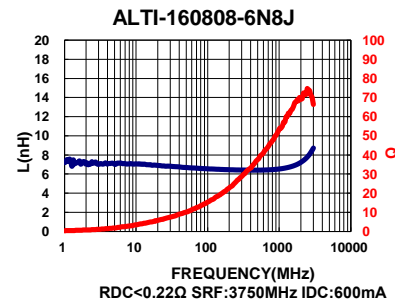
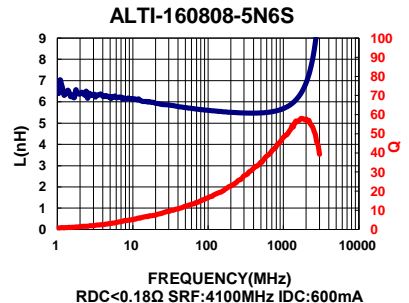
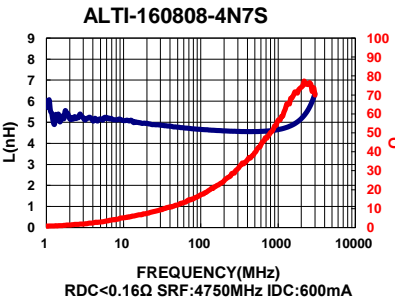
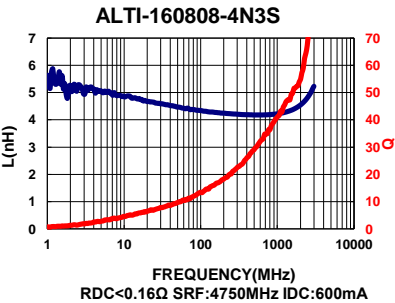
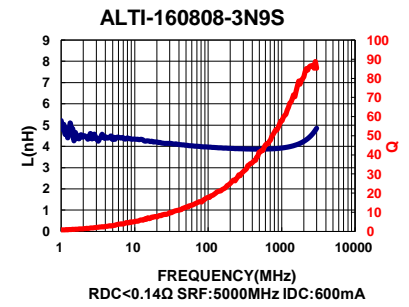
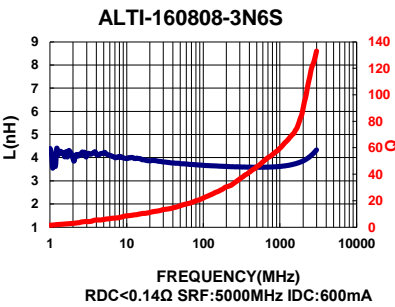
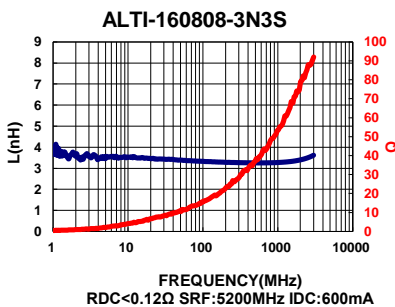
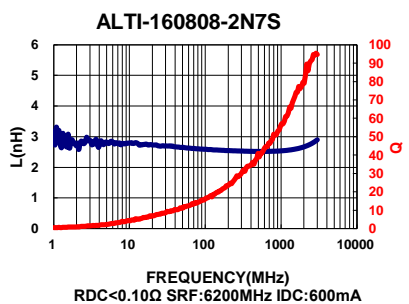
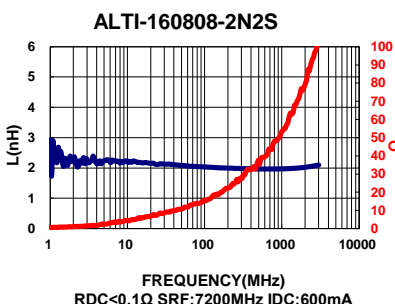
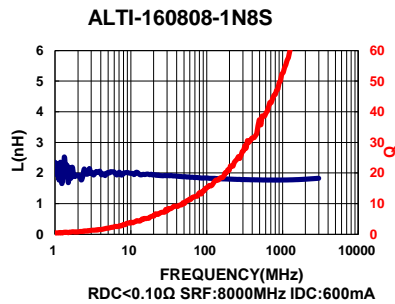
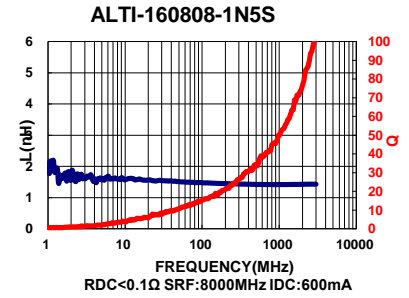
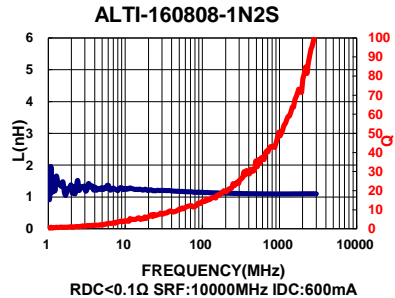
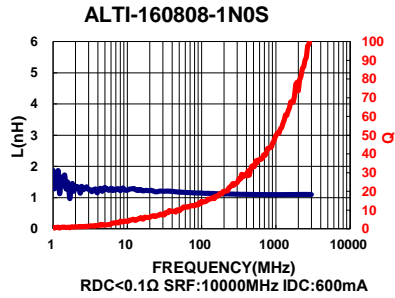
1. Operating temperature range - 40°C ~ 125°C
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Residual impedance of short chip : 0nH
4. Measure Equipment:  
L & Q: Agilent E4991A+Agilent 16197A  
SRF: Agilent E4991A or HP19196C  
RDC: HP4338B or CHEN HWA 502

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Mag.Layers approval. Please contact our sales department before ordering.



**ALTI-160808 Type**

**Characteristics Graph**

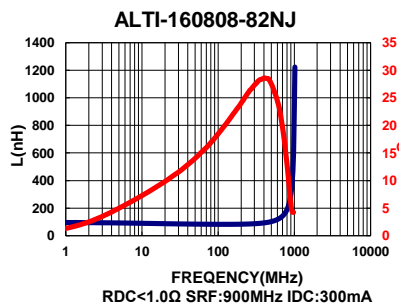
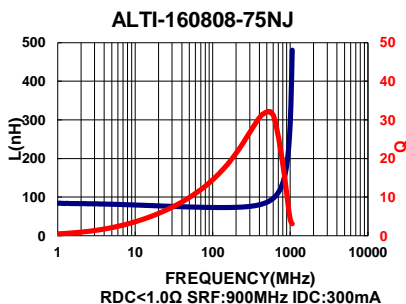
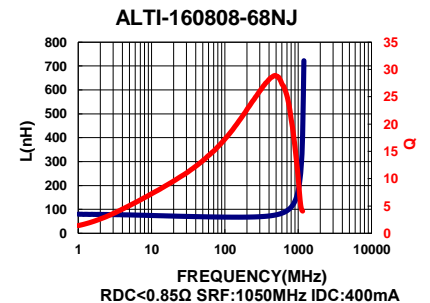
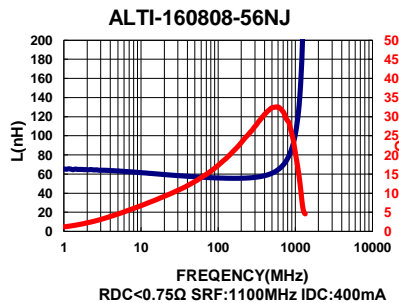
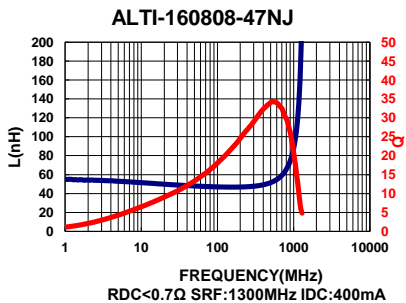
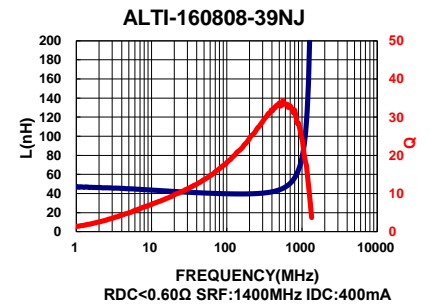
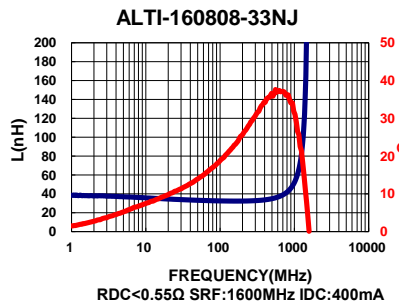
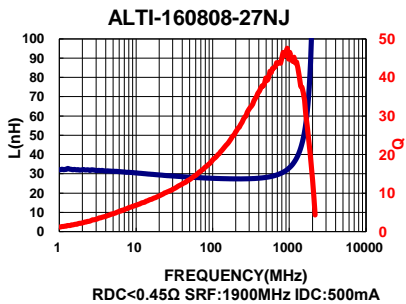
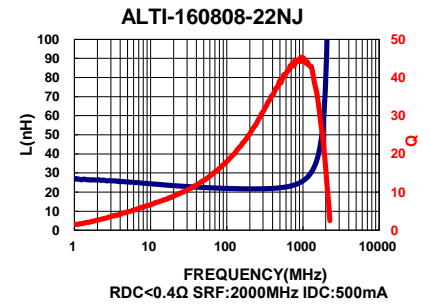
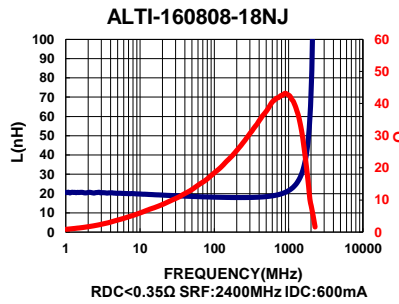
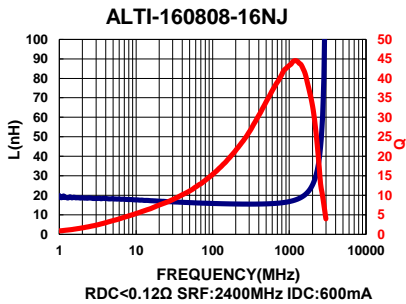
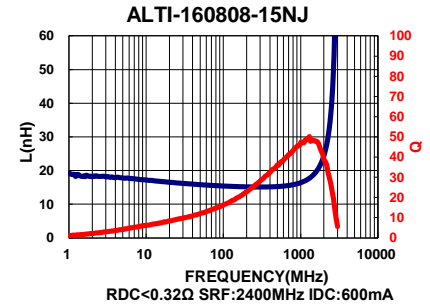
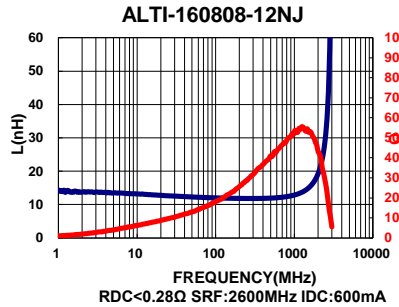
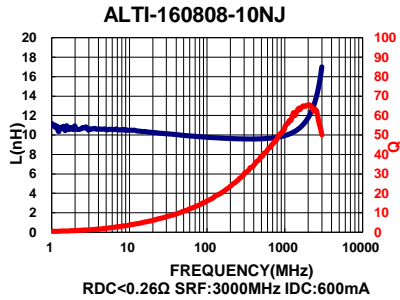


Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Mag.Layers approval. Please contact our sales department before ordering.



**ALTI-160808 Type**

**Characteristics Graph**

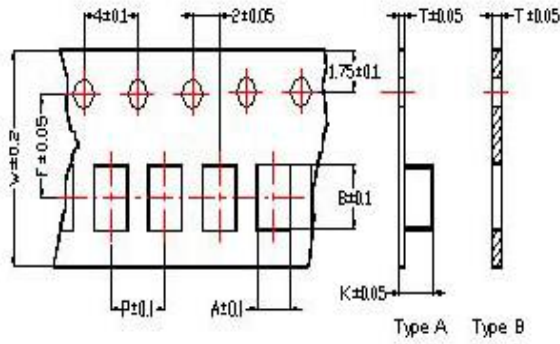


Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Mag.Layers approval. Please contact our sales department before ordering.



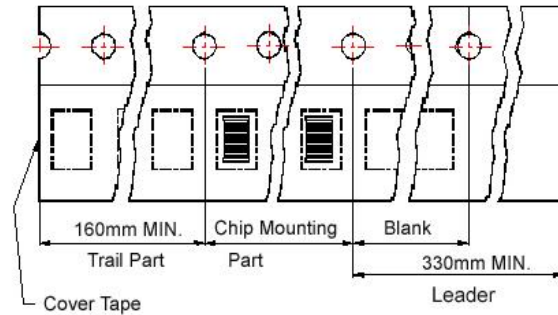
**■ Packaging**

**Tape Dimensions**

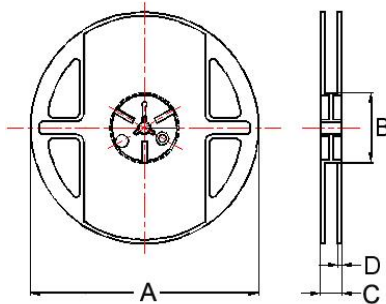


**Tape Material**

Carrier Tape: Polycarbonate (Tape A)  
Carrier Tape: Paper (Tape B)  
Cover Tape: Polystyrene



**Reel Dimensions**



**Dimensions in mm**

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	Tape	A	B	C	D	
160808	1.00	1.80	0.95	8	4	3.5	B	178	60	12	1.5	4000