



Chip Inductor ALTI Q Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



- Noise
Suppression
- Shield
- Multilayer
- Ceramic
- High
Frequency

Part Numbering

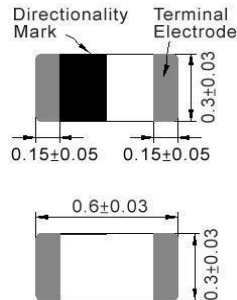
ALTI	060303	1N0	B	Q
Series Name	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
	060303 0.6x0.3x0.3	0N6 0.6	B ±0.1nH	
		1N0 1.0	C ±0.2nH	
		10N 10	H ±3%	

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



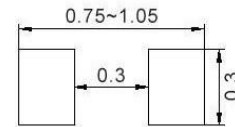
ALTI-060303 Q Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
ALTI-060303-0N6□Q	0.6	500 MHz,500 mV	14	10000	0.06	900	B
ALTI-060303-0N7□Q	0.7	500 MHz,500 mV	14	10000	0.06	900	B
ALTI-060303-0N8□Q	0.8	500 MHz,500 mV	14	10000	0.06	900	B
ALTI-060303-0N9□Q	0.9	500 MHz,500 mV	14	10000	0.06	900	B
ALTI-060303-1N0□Q	1.0	500 MHz,500 mV	14	10000	0.07	850	B
ALTI-060303-1N1□Q	1.1	500 MHz,500 mV	14	10000	0.07	850	B
ALTI-060303-1N2□Q	1.2	500 MHz,500 mV	14	10000	0.08	800	B
ALTI-060303-1N3□Q	1.3	500 MHz,500 mV	14	10000	0.09	760	B
ALTI-060303-1N4□Q	1.4	500 MHz,500 mV	14	10000	0.12	640	B
ALTI-060303-1N5□Q	1.5	500 MHz,500 mV	14	10000	0.15	600	B
ALTI-060303-1N6□Q	1.6	500 MHz,500 mV	14	10000	0.19	510	B
ALTI-060303-1N7□Q	1.7	500 MHz,500 mV	14	10000	0.11	680	B
ALTI-060303-1N8□Q	1.8	500 MHz,500 mV	14	10000	0.12	640	B
ALTI-060303-1N9□Q	1.9	500 MHz,500 mV	14	10000	0.13	620	B
ALTI-060303-2N0□Q	2.0	500 MHz,500 mV	14	10000	0.15	600	B
ALTI-060303-2N1□Q	2.1	500 MHz,500 mV	14	10000	0.16	550	B
ALTI-060303-2N2□Q	2.2	500 MHz,500 mV	14	10000	0.20	500	B
ALTI-060303-2N3□Q	2.3	500 MHz,500 mV	14	10000	0.24	460	B
ALTI-060303-2N4□Q	2.4	500 MHz,500 mV	14	10000	0.26	430	B
ALTI-060303-2N5□Q	2.5	500 MHz,500 mV	14	10000	0.28	415	B
ALTI-060303-2N6□Q	2.6	500 MHz,500 mV	14	10000	0.30	405	B
ALTI-060303-2N7□Q	2.7	500 MHz,500 mV	14	10000	0.32	400	B
ALTI-060303-2N8□Q	2.8	500 MHz,500 mV	14	9500	0.20	500	B
ALTI-060303-2N9□Q	2.9	500 MHz,500 mV	14	9300	0.22	480	B
ALTI-060303-3N0□Q	3.0	500 MHz,500 mV	14	9100	0.24	460	B
ALTI-060303-3N1□Q	3.1	500 MHz,500 mV	14	8900	0.25	450	B
ALTI-060303-3N2□Q	3.2	500 MHz,500 mV	14	8700	0.28	415	B
ALTI-060303-3N3□Q	3.3	500 MHz,500 mV	14	8600	0.28	415	B
ALTI-060303-3N4□Q	3.4	500 MHz,500 mV	14	8400	0.29	410	B
ALTI-060303-3N5□Q	3.5	500 MHz,500 mV	14	8200	0.30	405	B
ALTI-060303-3N6□Q	3.6	500 MHz,500 mV	14	8100	0.32	400	B
ALTI-060303-3N7□Q	3.7	500 MHz,500 mV	14	8000	0.36	370	B

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / H=±3%

1. Operating temperature range - 40°C ~ 125°C
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent 16197A

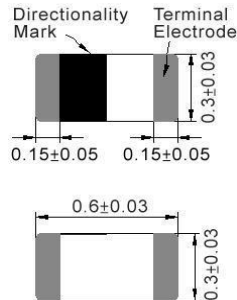
SRF: Agilent E4991A or HP19196C

RDC: HP4338B or CHEN HWA 502



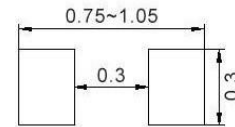
ALTI-060303 Q Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
ALTI-060303-3N8□Q	3.8	500 MHz,500 mV	14	7800	0.40	355	B
ALTI-060303-3N9□Q	3.9	500 MHz,500 mV	14	7700	0.41	350	B
ALTI-060303-4N3□Q	4.3	500 MHz,500 mV	14	6500	0.48	320	C
ALTI-060303-4N7□Q	4.7	500 MHz,500 mV	14	6400	0.42	350	C
ALTI-060303-5N1□Q	5.1	500 MHz,500 mV	14	6100	0.45	330	C
ALTI-060303-5N6□Q	5.6	500 MHz,500 mV	14	5500	0.47	325	C
ALTI-060303-6N2□Q	6.2	500 MHz,500 mV	14	5100	0.52	305	C
ALTI-060303-6N8□Q	6.8	500 MHz,500 mV	14	4800	0.55	305	H
ALTI-060303-7N5□Q	7.5	500 MHz,500 mV	14	4600	0.55	305	H
ALTI-060303-8N2□Q	8.2	500 MHz,500 mV	14	4300	0.57	290	H
ALTI-060303-9N1□Q	9.1	500 MHz,500 mV	14	4000	0.65	270	H
ALTI-060303-10N□Q	10	500 MHz,500 mV	14	3800	0.85	230	H
ALTI-060303-12N□Q	12	500 MHz,500 mV	14	3300	0.85	230	H
ALTI-060303-15N□Q	15	500 MHz,500 mV	14	2600	0.89	220	H
ALTI-060303-18N□Q	18	500 MHz,500 mV	14	2300	1.05	205	H
ALTI-060303-22N□Q	22	500 MHz,500 mV	14	1900	1.29	190	H

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / H=±3%

1. Operating temperature range - 40°C ~ 125°C
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L & Q: Agilent E4991A+Agilent 16197A

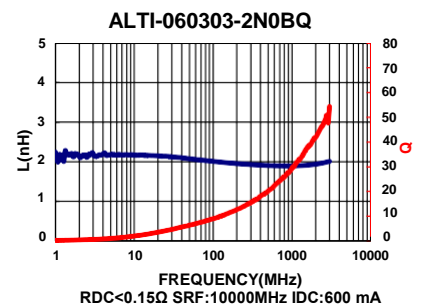
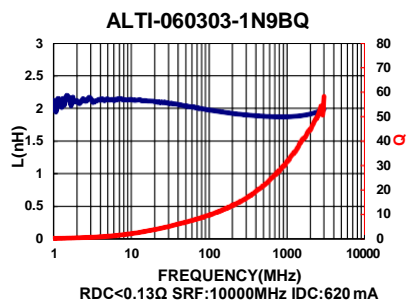
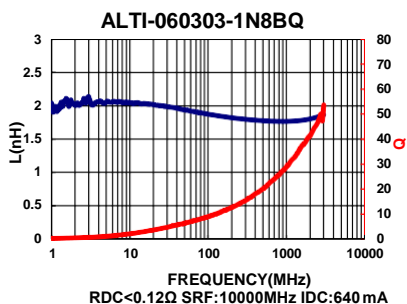
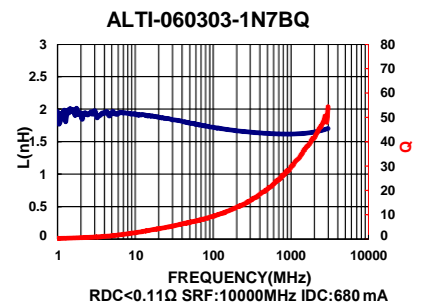
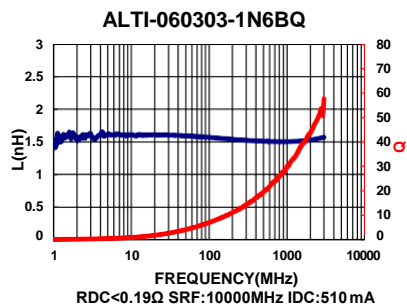
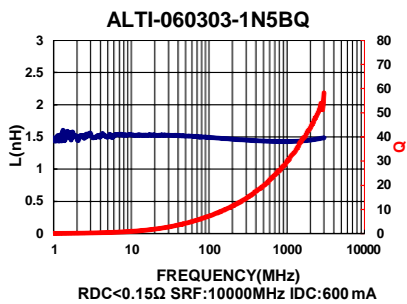
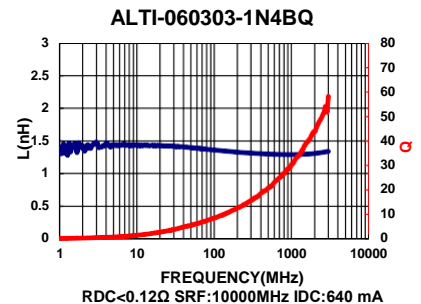
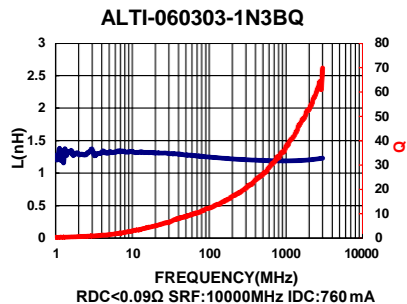
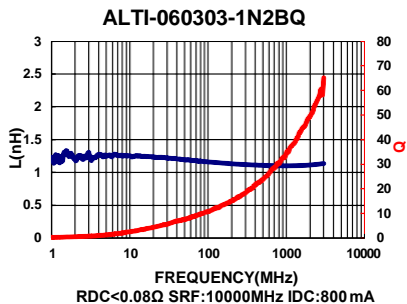
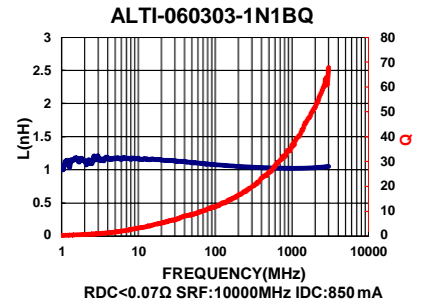
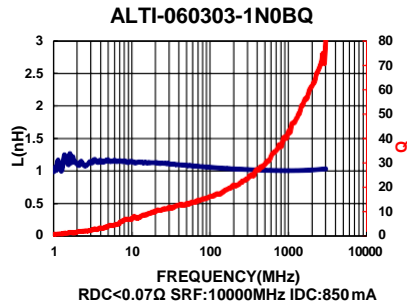
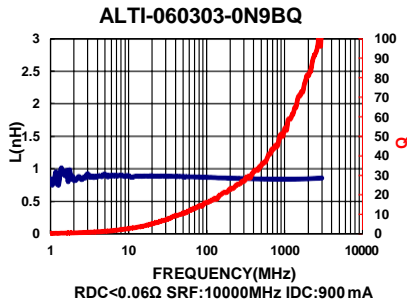
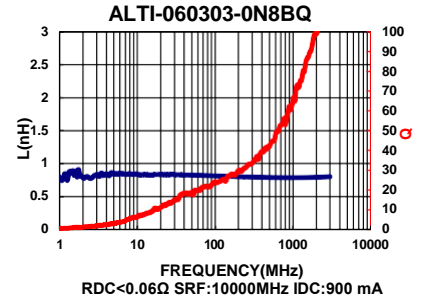
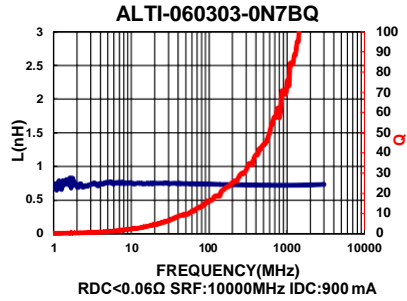
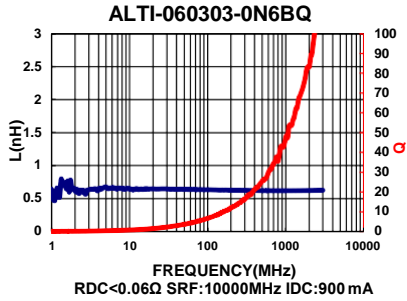
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ALTI-060303 Q Type

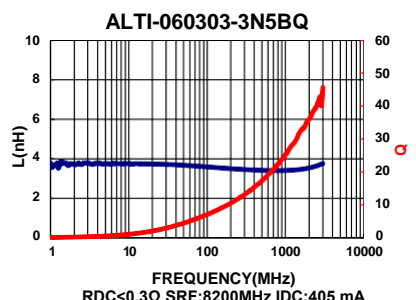
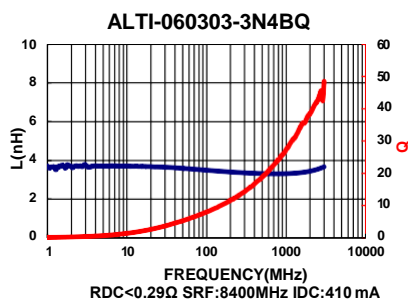
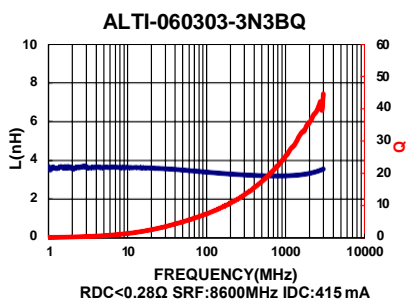
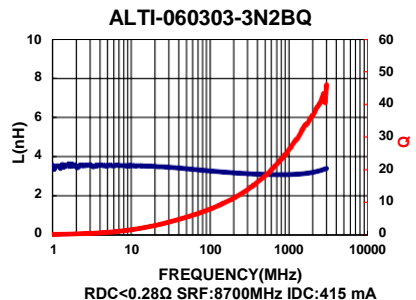
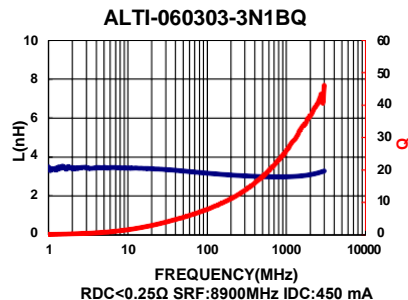
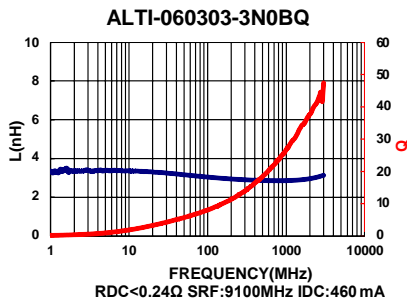
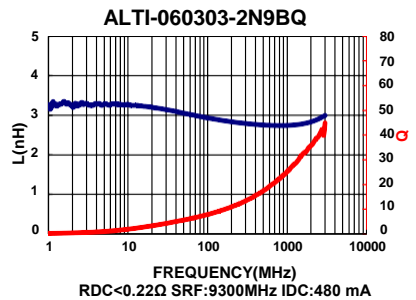
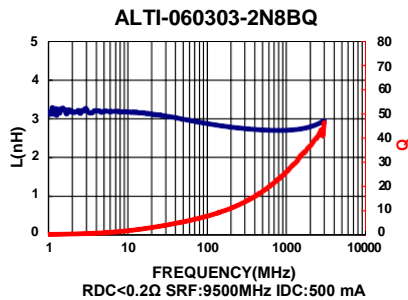
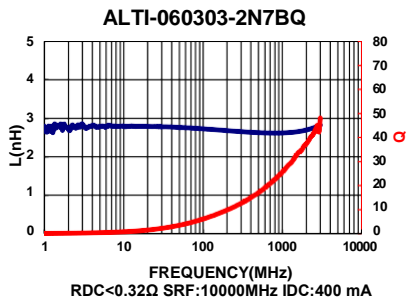
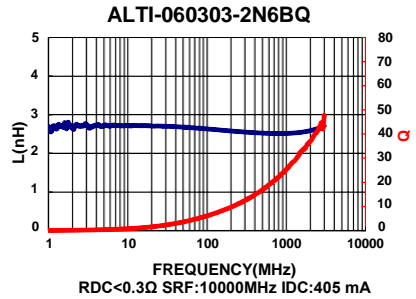
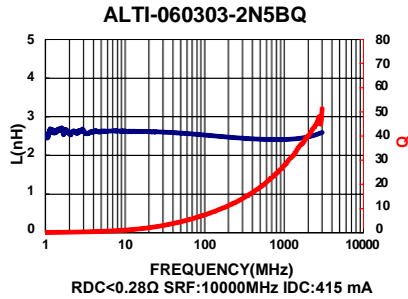
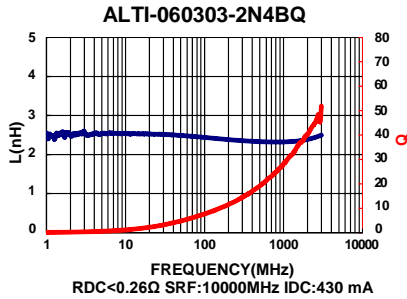
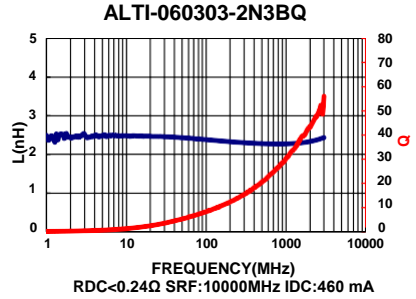
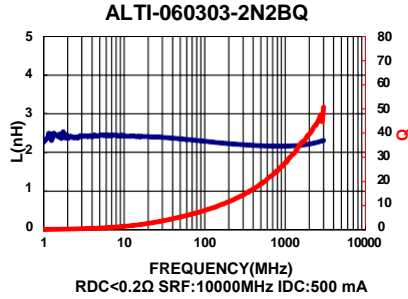
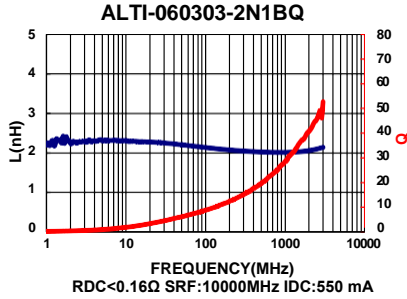
■ Characteristics Graph





ALTI-060303 Q Type

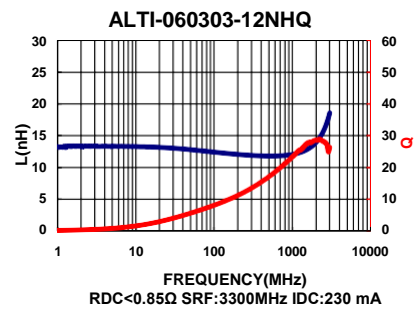
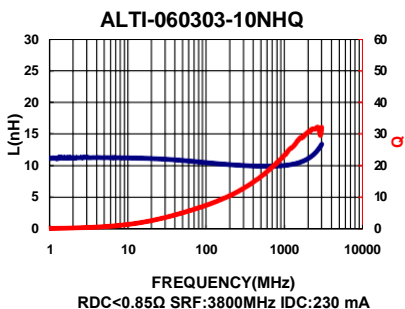
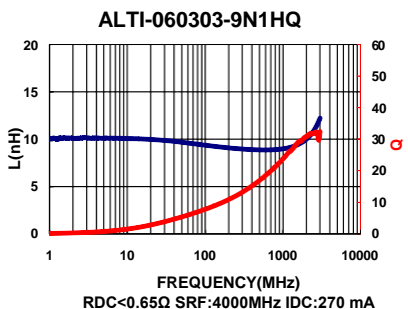
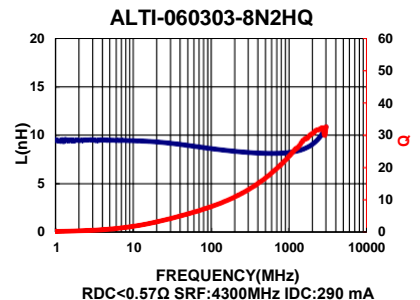
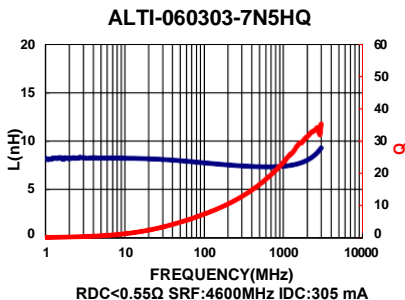
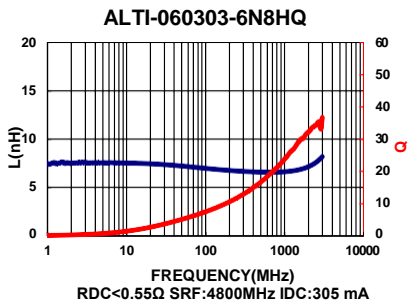
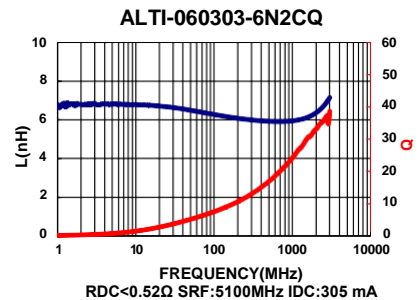
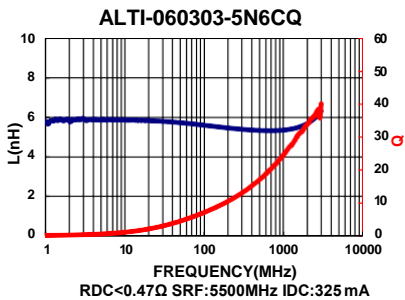
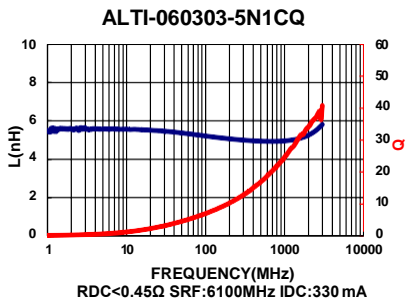
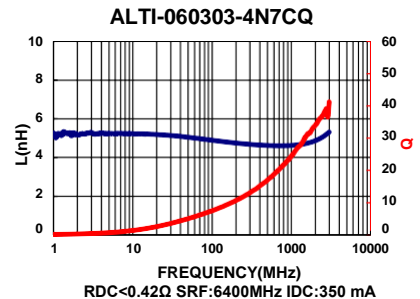
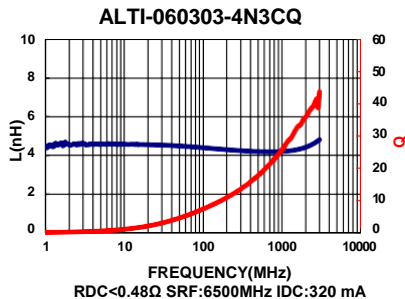
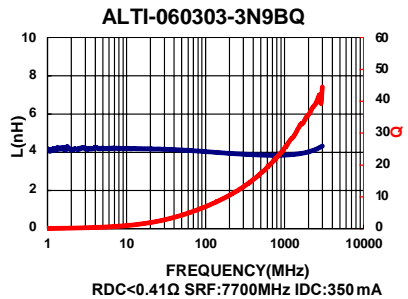
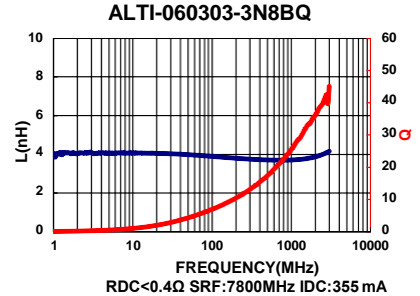
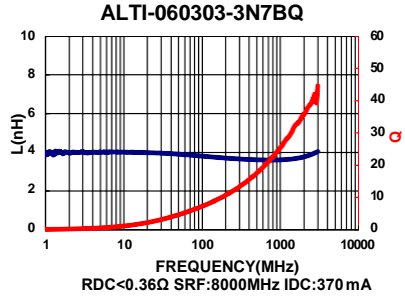
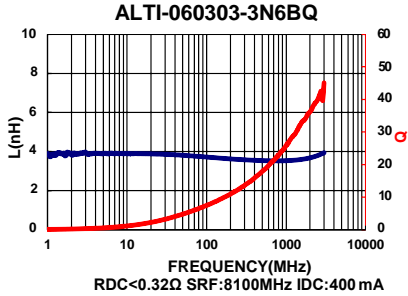
■ Characteristics Graph





ALTI-060303 Q Type

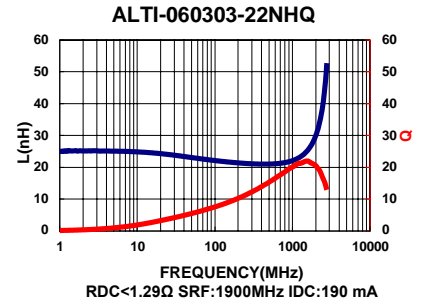
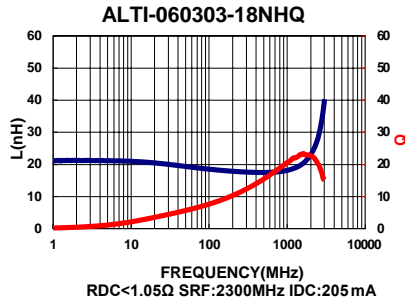
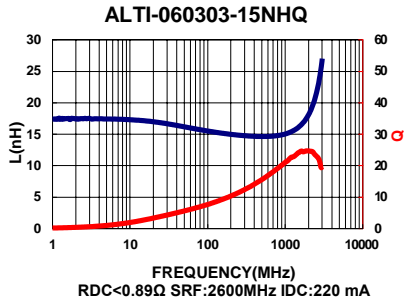
■ Characteristics Graph





ALTI-060303 Q Type

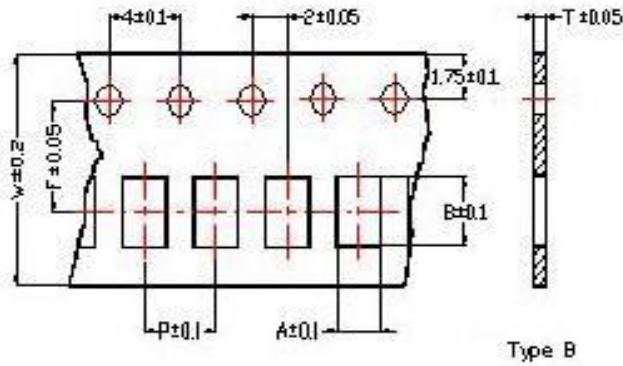
■ Characteristics Graph





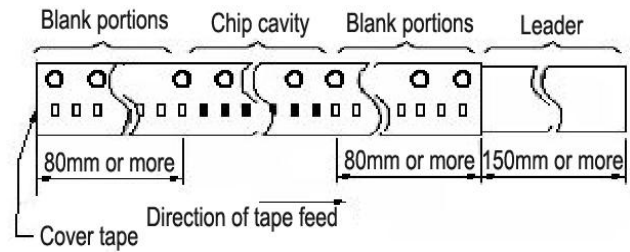
■ Packaging

Tape Dimensions

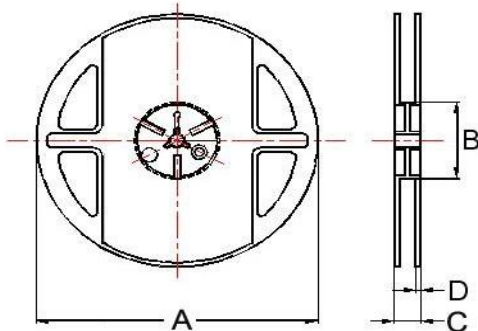


Tape Material

Carrier tape : Paper
Cover tape : Polyethylene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	A	B	C	D	
060303	0.37	0.67	0.42	8	2	3.5	180	60	13	1.5	15000