Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor ASCQ Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Noise Suppression | Shield | Multilayer | Ceramic | High Frequency

■ Part Numbering

A	SCQ	00	060303	1N0	B	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code

Dimensions Code (mm)	
060303	0.6x0.3x0.3

Inductance (nH)	
0N6	0.6
1N0	1.0
10N	10

Tolerance	
B	±0.1nH
C	±0.2nH
H	±3%

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

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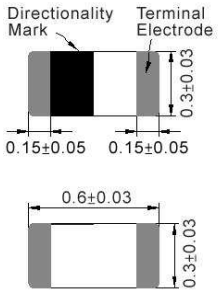
Chip Inductor ASCQ Series

Automotive AEC-Q200

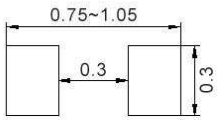
ASCQ00060303 Type

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 (±%)
ASCQ000603030N6□00	0.6	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N7□00	0.7	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N8□00	0.8	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N9□00	0.9	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603031N0□00	1.0	500 MHz,500 mV	14	10000	0.07	850	B
ASCQ000603031N1□00	1.1	500 MHz,500 mV	14	10000	0.07	850	B
ASCQ000603031N2□00	1.20	500 MHz,500 mV	14	10000	0.08	800	B
ASCQ000603031N3□00	1.30	500 MHz,500 mV	14	10000	0.09	760	B
ASCQ000603031N4□00	1.40	500 MHz,500 mV	14	10000	0.12	640	B
ASCQ000603031N5□00	1.50	500 MHz,500 mV	14	10000	0.15	600	B
ASCQ000603031N6□00	1.60	500 MHz,500 mV	14	10000	0.19	510	B
ASCQ000603031N7□00	1.70	500 MHz,500 mV	14	10000	0.11	680	B
ASCQ000603031N8□00	1.80	500 MHz,500 mV	14	10000	0.12	640	B
ASCQ000603031N9□00	1.90	500 MHz,500 mV	14	10000	0.13	620	B
ASCQ000603032N0□00	2.00	500 MHz,500 mV	14	10000	0.15	600	B
ASCQ000603032N1□00	2.10	500 MHz,500 mV	14	10000	0.16	550	B
ASCQ000603032N2□00	2.20	500 MHz,500 mV	14	10000	0.20	500	B
ASCQ000603032N3□00	2.30	500 MHz,500 mV	14	10000	0.24	460	B
ASCQ000603032N4□00	2.4	500 MHz,500 mV	14	10000	0.26	430	B
ASCQ000603032N5□00	2.5	500 MHz,500 mV	14	10000	0.28	415	B
ASCQ000603032N6□00	2.6	500 MHz,500 mV	14	10000	0.30	405	B
ASCQ000603032N7□00	2.7	500 MHz,500 mV	14	10000	0.32	400	B
ASCQ000603032N8□00	2.8	500 MHz,500 mV	14	9500	0.20	500	B
ASCQ000603032N9□00	2.9	500 MHz,500 mV	14	9300	0.22	480	B
ASCQ000603033N0□00	3	500 MHz,500 mV	14	9100	0.24	460	B
ASCQ000603033N1□00	3.1	500 MHz,500 mV	14	8900	0.25	450	B
ASCQ000603033N2□00	3.2	500 MHz,500 mV	14	8700	0.28	415	B
ASCQ000603033N3□00	3.3	500 MHz,500 mV	14	8600	0.28	415	B
ASCQ000603033N4□00	3.4	500 MHz,500 mV	14	8400	0.29	410	B
ASCQ000603033N5□00	3.5	500 MHz,500 mV	14	8200	0.30	405	B
ASCQ000603033N6□00	3.6	500 MHz,500 mV	14	8100	0.32	400	B
ASCQ000603033N7□00	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 - 55℃ ~ 125℃
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

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 Chilisin approval. Please contact our sales department before ordering.

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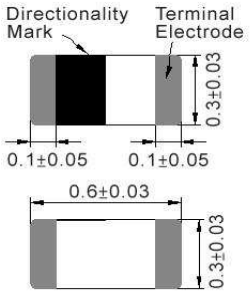
Chip Inductor ASCQ Series

Automotive AEC-Q200

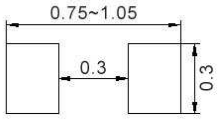
ASCQ00060303 Type

■ 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 (±%)
ASCQ000603033N8□00	3.8	500 MHz,500 mV	14	7800	0.40	355	B
ASCQ000603033N9□00	3.9	500 MHz,500 mV	14	7700	0.41	350	B
ASCQ000603034N3□00	4.3	500 MHz,500 mV	14	6500	0.48	320	C
ASCQ000603034N7□00	4.7	500 MHz,500 mV	14	6400	0.42	350	C
ASCQ000603035N1□00	5.1	500 MHz,500 mV	14	6100	0.45	330	C
ASCQ000603035N6□00	5.6	500 MHz,500 mV	14	5500	0.47	325	C
ASCQ000603036N2□00	6.2	500 MHz,500 mV	14	5100	0.52	305	C
ASCQ000603036N8□00	6.8	500 MHz,500 mV	14	4800	0.55	305	H
ASCQ000603037N5□00	7.5	500 MHz,500 mV	14	4600	0.55	305	H
ASCQ000603038N2□00	8.2	500 MHz,500 mV	14	4300	0.57	290	H
ASCQ000603039N1□00	9.1	500 MHz,500 mV	14	4000	0.65	270	H
ASCQ0006030310N□00	10	500 MHz,500 mV	14	3800	0.85	230	H
ASCQ0006030312N□00	12	500 MHz,500 mV	14	3300	0.85	230	H
ASCQ0006030315N□00	15	500 MHz,500 mV	14	2600	0.89	220	H
ASCQ0006030318N□00	18	500 MHz,500 mV	14	2300	1.05	205	H
ASCQ0006030322N□00	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 - 55℃ ~ 125℃
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

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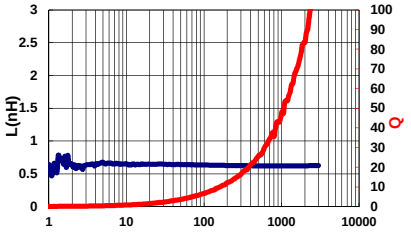
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

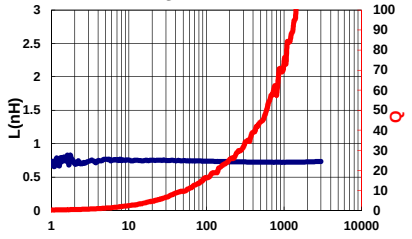
■ Characteristics Graph

ASCQ000603030N6B00



RDC<0.06Ω SRF:10000MHz IDC:900 mA

ASCQ000603030N7B00



RDC<0.06Ω SRF:10000MHz IDC:900 mA

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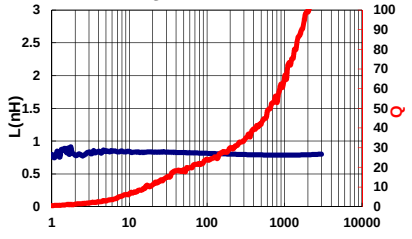

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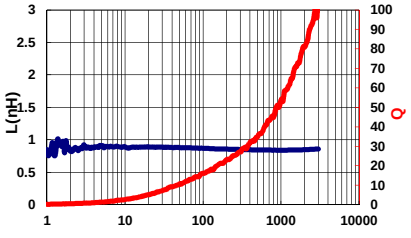

RDC<0.06Ω SRF:10000MHz IDC:900 mA

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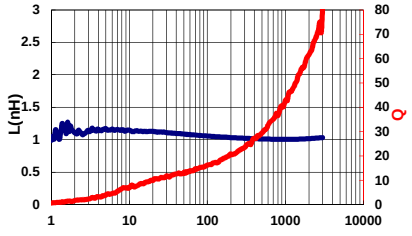

RDC<0.07Ω SRF:10000MHz IDC:850 mA

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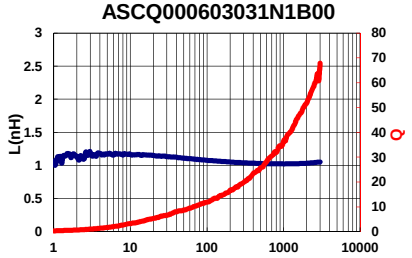

RDC<0.07Ω SRF:10000MHz IDC:850 mA

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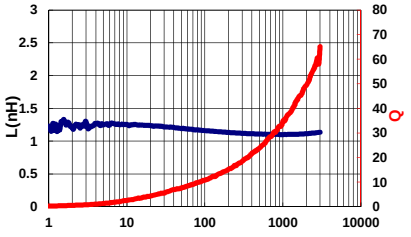

RDC<0.08Ω SRF:10000MHz IDC:800 mA

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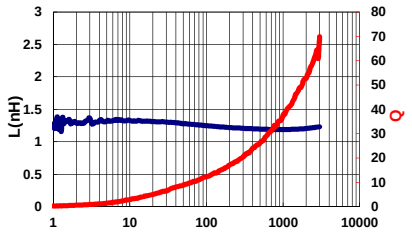

RDC<0.09Ω SRF:10000MHz IDC:760 mA

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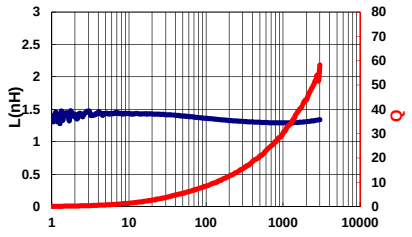

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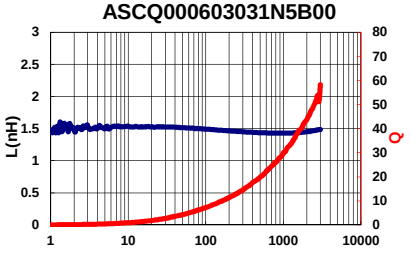

RDC<0.15Ω SRF:10000MHz IDC:600 mA

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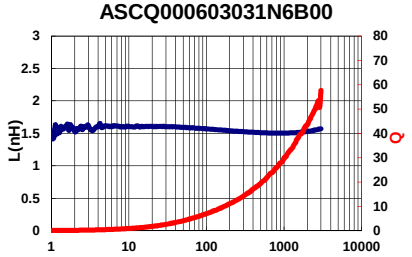

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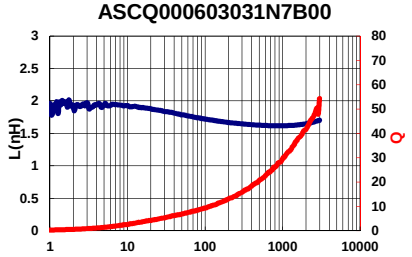

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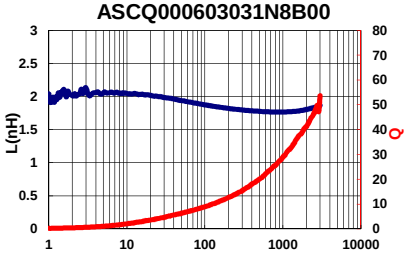

RDC<0.12Ω SRF:10000MHz IDC:640 mA

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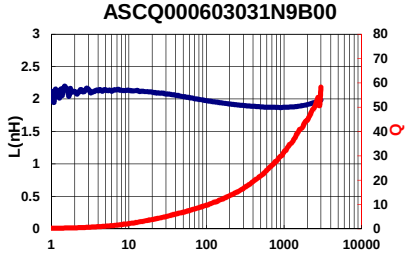

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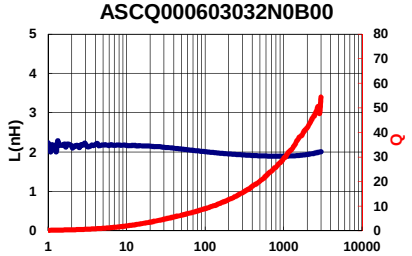

RDC<0.15Ω SRF:10000MHz IDC:600 mA

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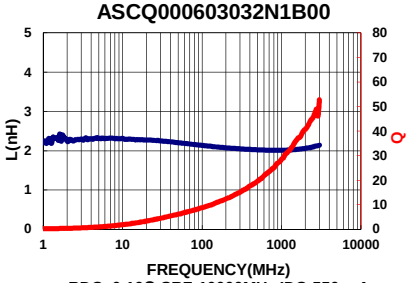
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

■ Characteristics Graph

ASCQ000603032N1B00



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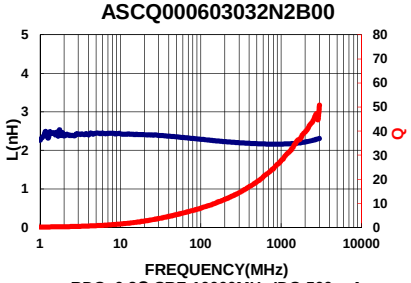

RDC<0.2Ω SRF:10000MHz IDC:500 mA

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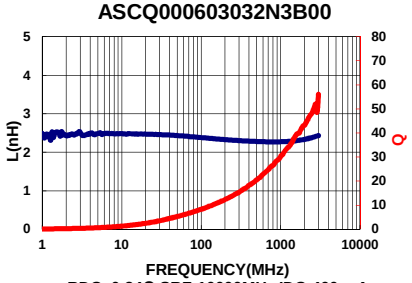

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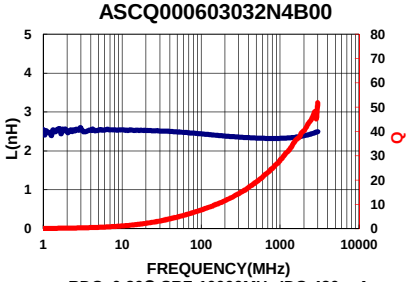

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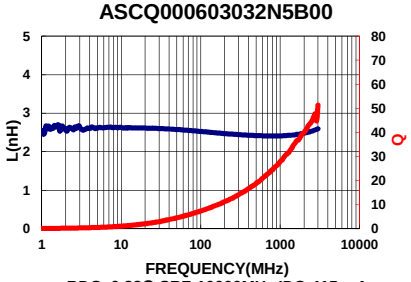

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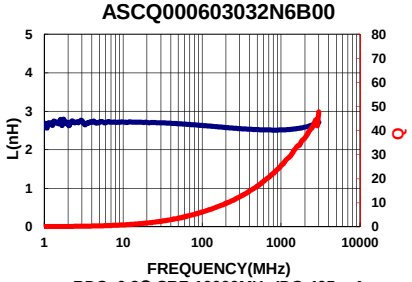

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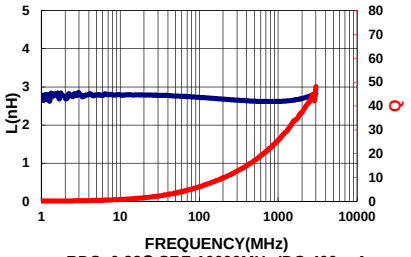

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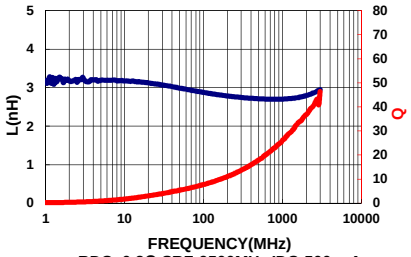

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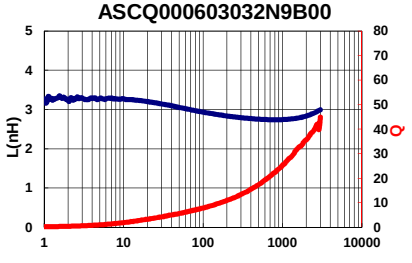

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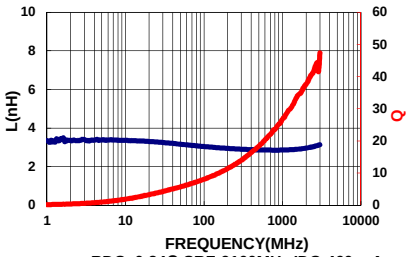

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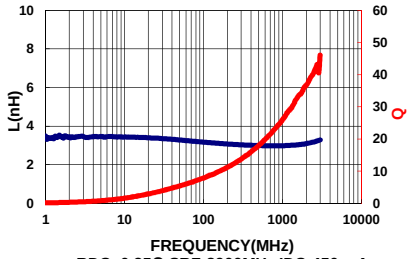

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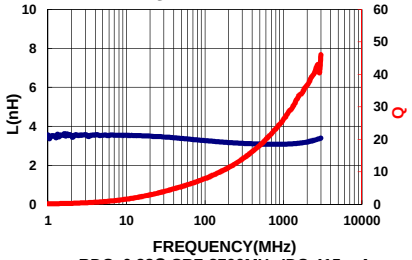

RDC<0.28Ω SRF:8700MHz IDC:415 mA

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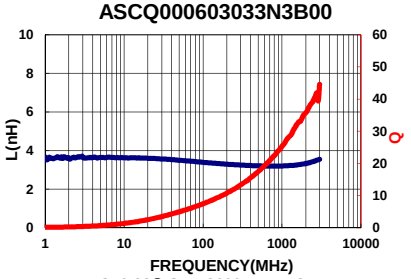

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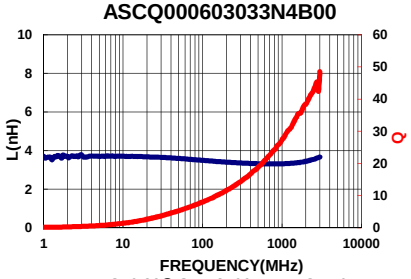

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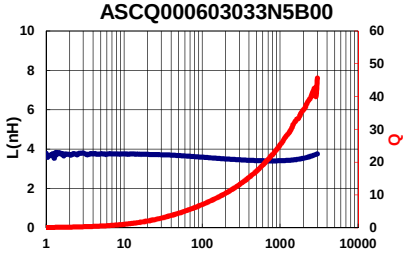

RDC<0.3Ω SRF:8200MHz IDC:405 mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

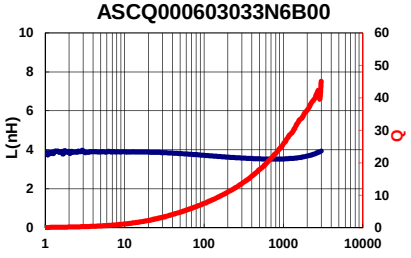
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

■ Characteristics Graph

ASCQ000603033N6B00



RDC<0.32Ω SRF:8100MHz IDC:400 mA

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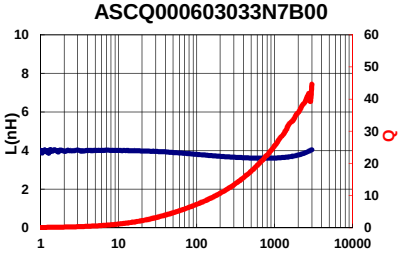

RDC<0.36Ω SRF:8000MHz IDC:370 mA

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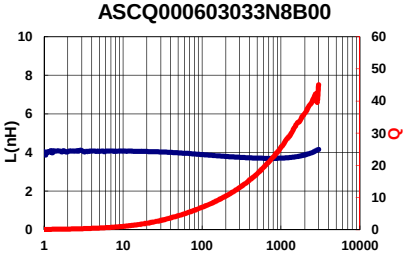
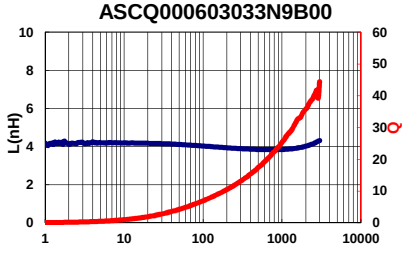


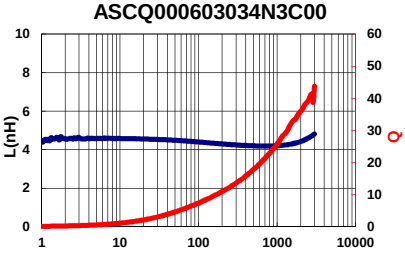
RDC<0.4Ω SRF:7800MHz IDC:355 mA

ASCQ000603033N9B00



RDC<0.41Ω SRF:7700MHz IDC:350 mA

ASCQ000603034N3C00



RDC<0.48Ω SRF:6500MHz IDC:320 mA

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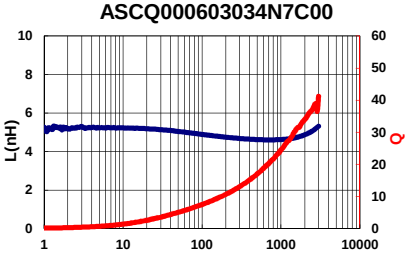

RDC<0.42Ω SRF:6400MHz IDC:350 mA

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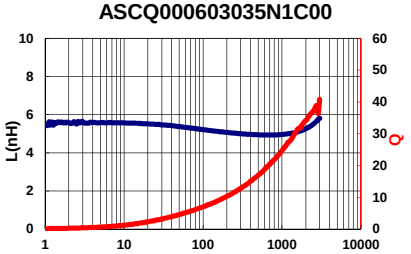

RDC<0.45Ω SRF:6100MHz IDC:330 mA

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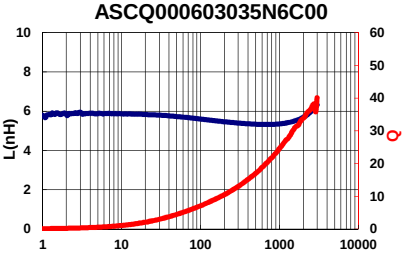
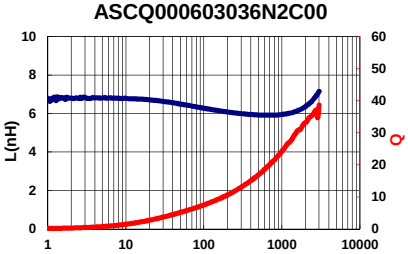


RDC<0.47Ω SRF:5500MHz IDC:325 mA

ASCQ000603036N2C00



RDC<0.52Ω SRF:5100MHz IDC:305 mA

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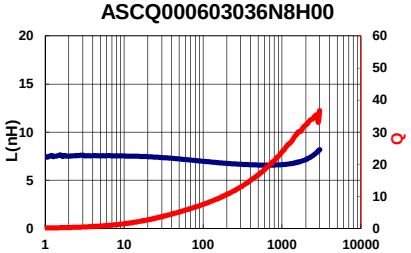
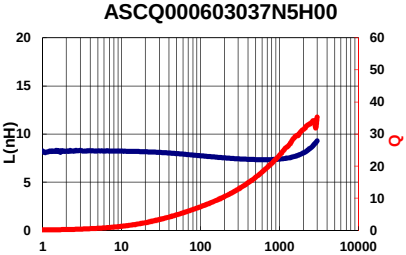


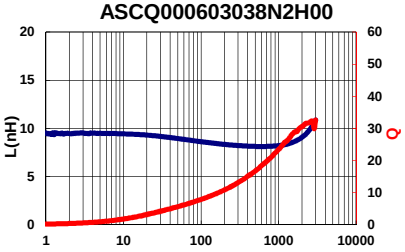
RDC<0.55Ω SRF:4800MHz IDC:305 mA

ASCQ000603037N5H00



RDC<0.55Ω SRF:4600MHz IDC:305 mA

ASCQ000603038N2H00



RDC<0.57Ω SRF:4300MHz IDC:290 mA

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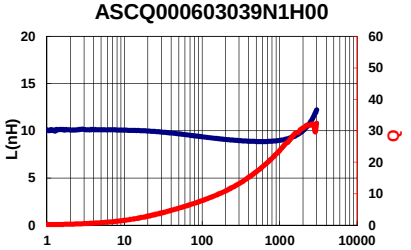
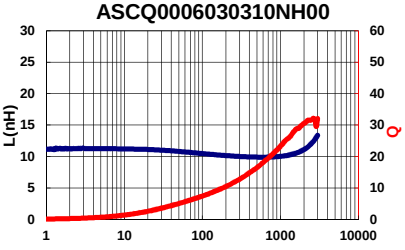


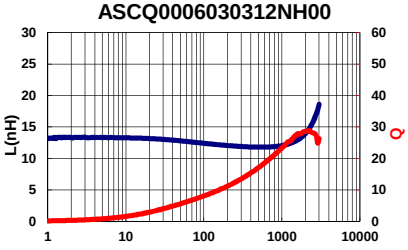
RDC<0.65Ω SRF:4000MHz IDC:270 mA

ASCQ0006030310NH00



RDC<0.85Ω SRF:3800MHz IDC:230 mA

ASCQ0006030312NH00



RDC<0.85Ω SRF:3300MHz IDC:230 mA

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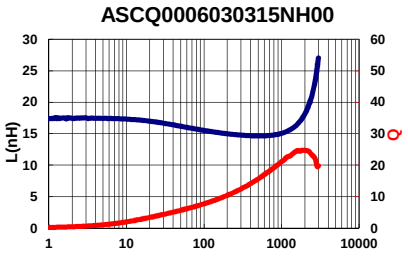
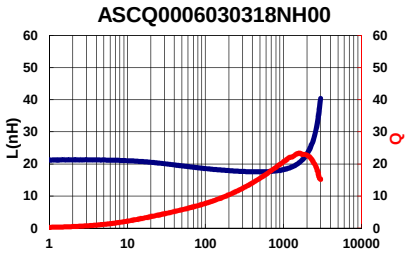
Chip Inductor ASCQ Series

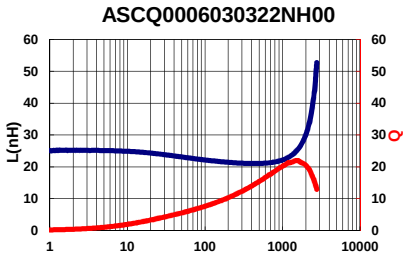
Automotive
AEC-Q200

ASCQ00060303 Type

■ Characteristics Graph







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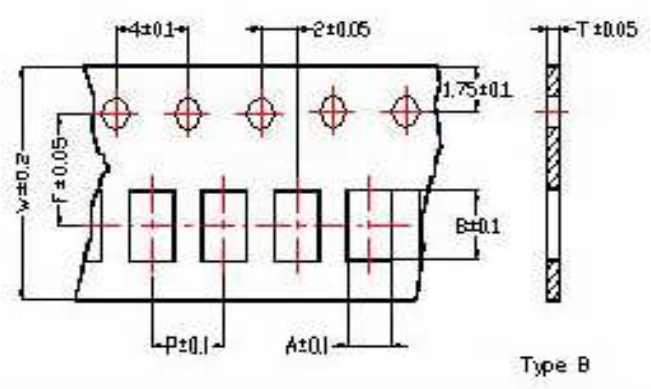
Chip Inductor ASCQ Series

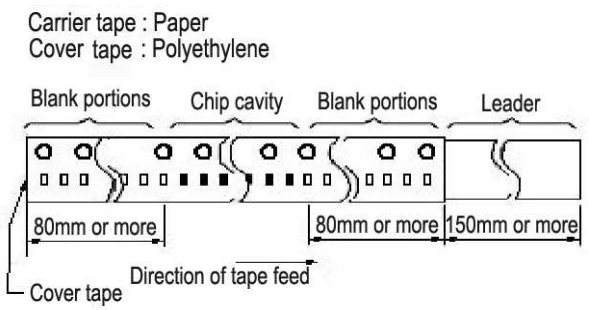
Automotive
AEC-Q200

Packaging

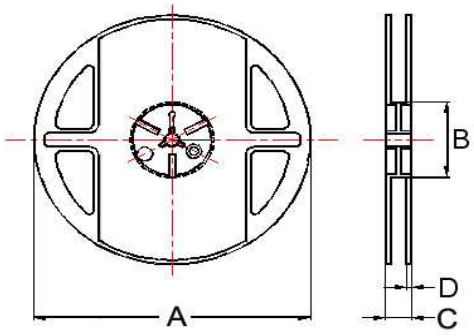
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
ASCQ00060303	0.37	0.67	0.42	8	2	3.5	180	60	13	1.5	15000

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