

Chip Inductor AWLM Series

Automotive
AEC-Q200

RoHS Compliant
 Halogen Free
 REACH Compliant


 RF
 Circuit

Unshield

 Wire
 Wound

Ceramic

 High
 Q

Part Numbering

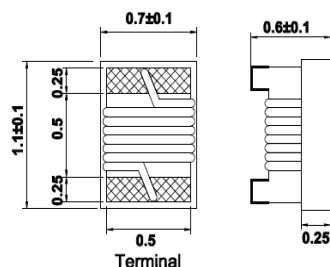
A	WLM	00	110706	10N	J	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			110706 1.1x0.7x0.6	4N9 5	D ±0.5nH	
			181009 1.8x1.0x0.9	18N 18	J ±5%	
				R10 100	K ±10%	

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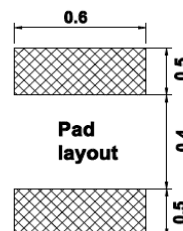
AWLM00110706 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance (±%)
AWLM0011070618N□00	18	100	3000	0.046	1400	5
AWLM0011070633N□00	33	100	1800	0.065	1300	5
AWLM0011070648N□00	48	100	1400	0.078	1100	5
AWLM0011070670N□00	70	100	1300	0.12	820	5
AWLM0011070696N□00	96	100	1100	0.16	730	5
AWLM00110706R13□00	130	100	1000	0.23	640	5
AWLM00110706R16□00	160	100	900	0.33	480	5
AWLM00110706R20□00	200	100	800	0.47	390	5

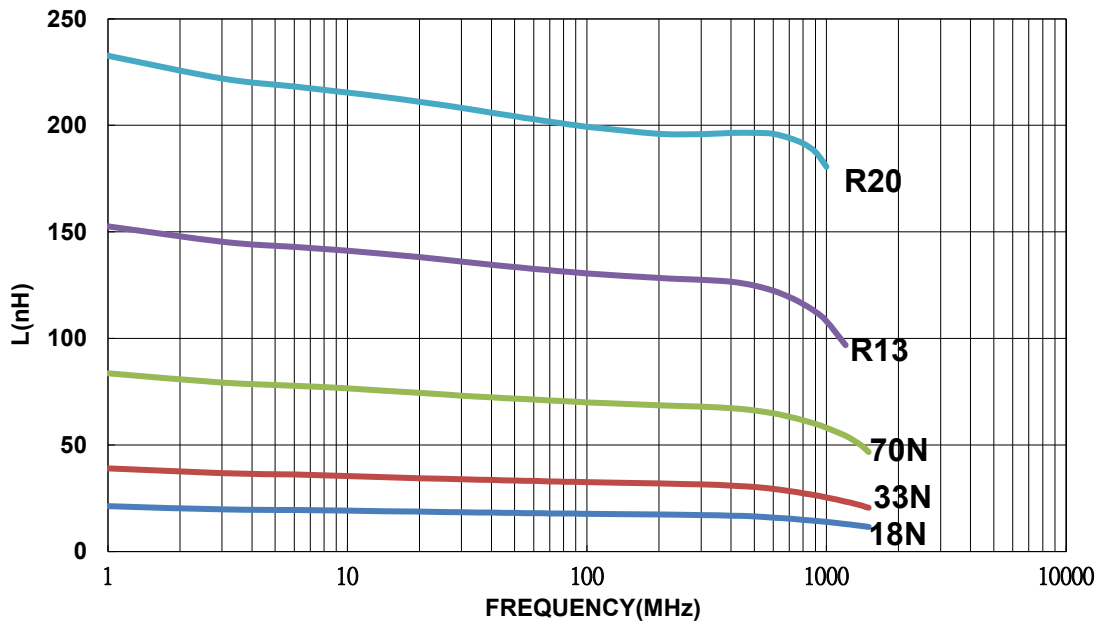
Note: □-tolerance J=±5%

- Operating temperature range — 55°C ~ 125°C (Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient.
- L/Q Test OSC @200mV.
- Inductance would be correct Chilisin standard piece.
- Offset value : -0.556nH

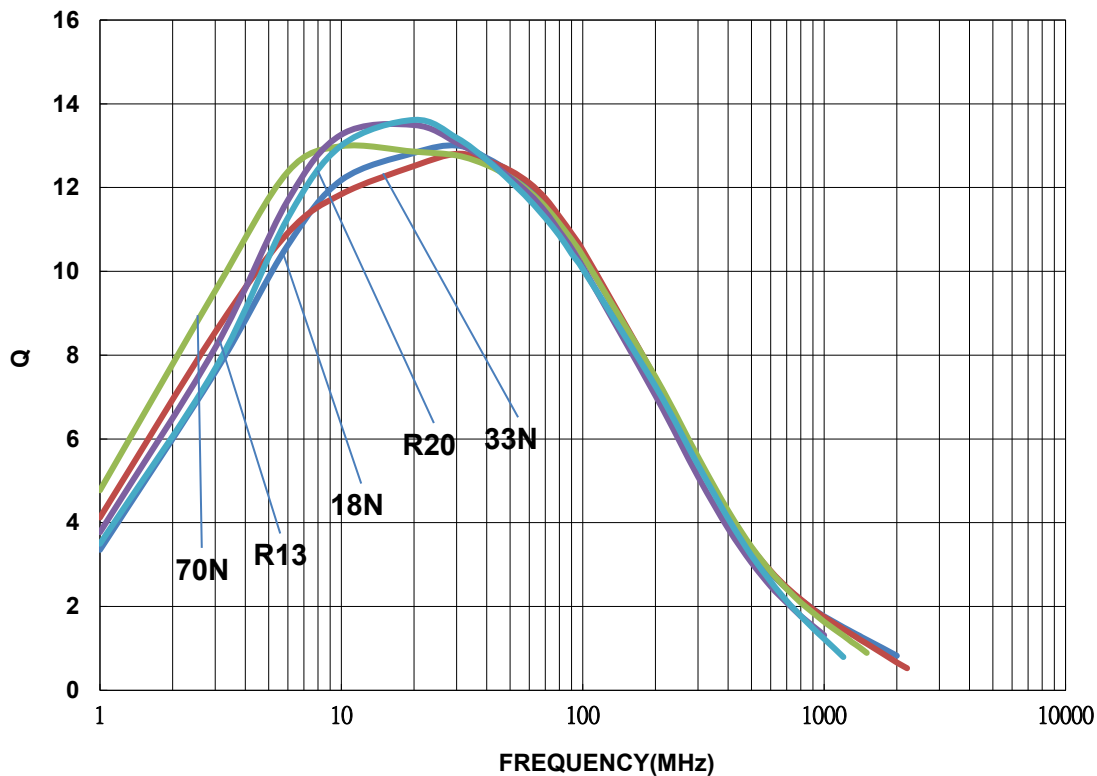
AWLM00110706 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

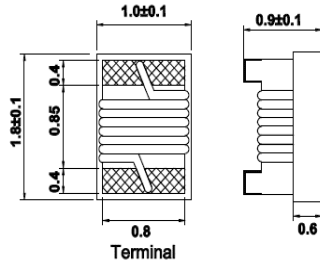


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AEC-Q200

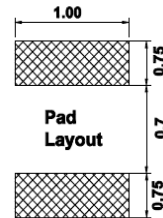
AWLM00181009 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance (±%)
AWLM001810094N□00	4.9	10	2300	0.015	2600	0.5nH
AWLM0018100915N□00	15	10	2000	0.025	2200	5
AWLM0018100933N□00	33	10	1800	0.035	1700	5
AWLM0018100955N□00	55	10	1600	0.045	1500	5
AWLM0018100985N□00	85	10	1380	0.06	1400	5
AWLM00181009R10□00	100	10	1260	0.1	1000	10
AWLM00181009R12□00	120	10	1200	0.085	1100	5
AWLM00181009R16□00	160	10	900	0.1	1000	5
AWLM00181009R21□00	210	10	720	0.15	800	5
AWLM00181009R27□00	270	10	660	0.16	750	5
AWLM00181009R33□00	330	10	600	0.25	630	5
AWLM00181009R39□00	390	10	570	0.28	620	5
AWLM00181009R47□00	470	10	555	0.45	500	5
AWLM00181009R56□00	560	10	540	0.48	450	5
AWLM00181009R65□00	650	10	510	0.52	430	5

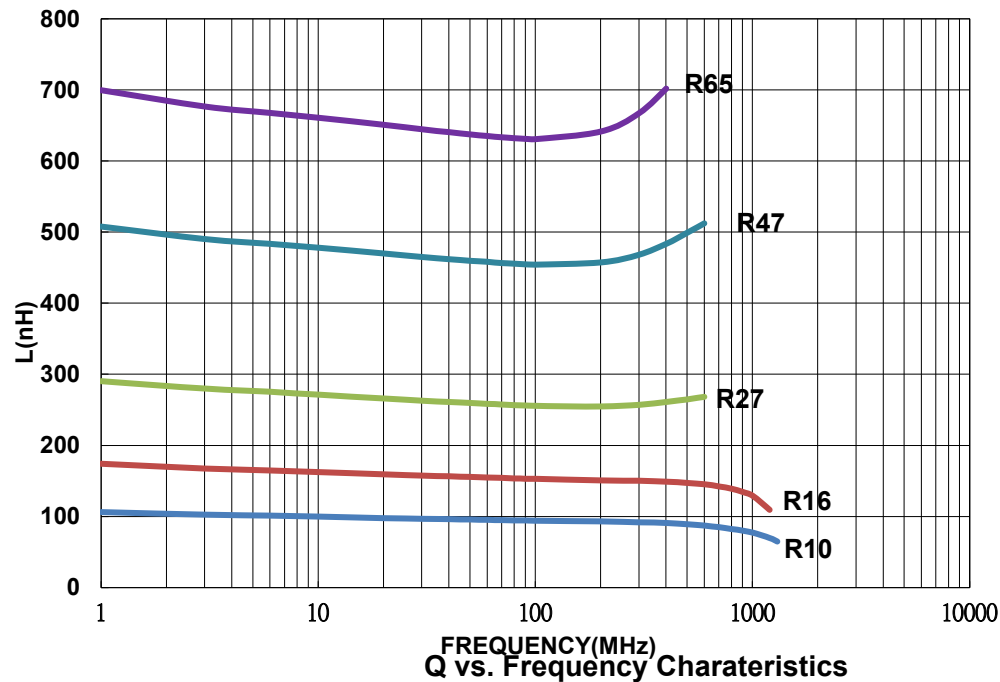
Note: When ordering, please specify tolerance code. Tolerance: D=±0.5nH / J=±5% / K=±10%

- Operating temperature range -40℃ ~ 125℃ (Including self - temperature rise)
- I_{rms} for a 15℃ temperature rise from 25℃ ambient.
- L/Q Test OSC @200mV.
- Inductance would be correct Chilisin standard piece.
- Offset value : -0.771nH

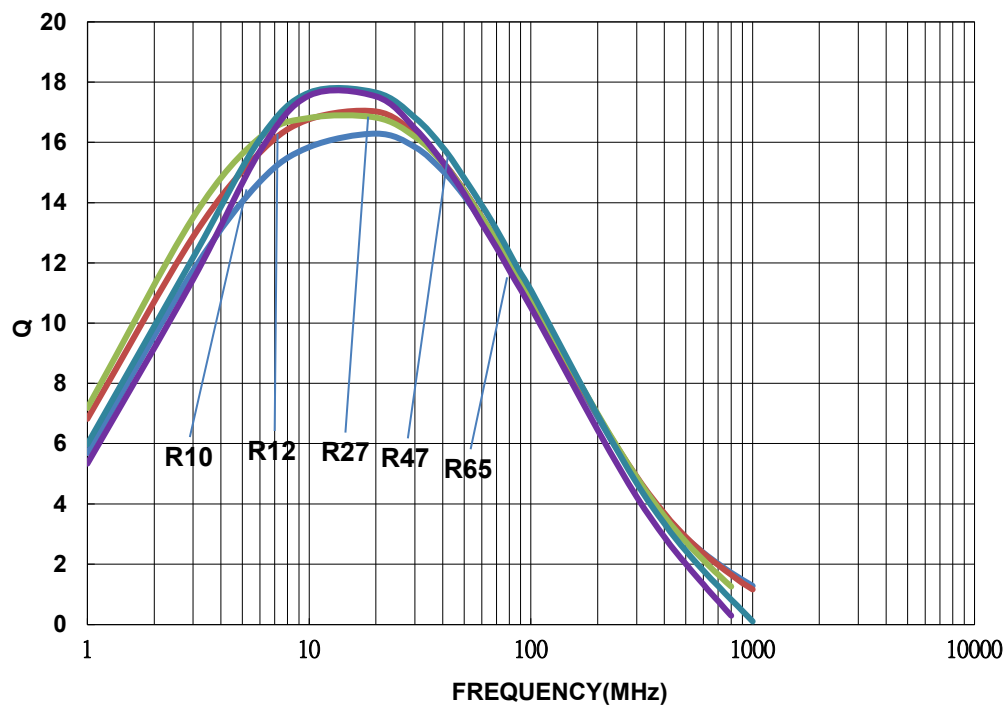
AWLM00181009 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



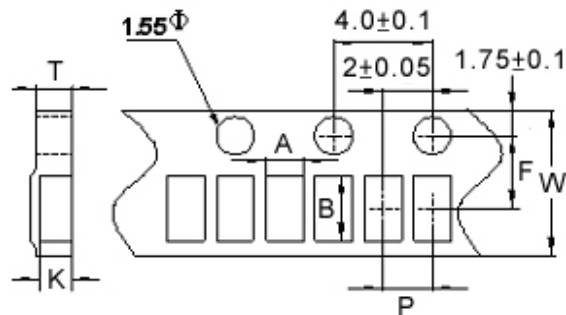
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■ Packaging

Tape Dimensions

Figure 1



Tape Material

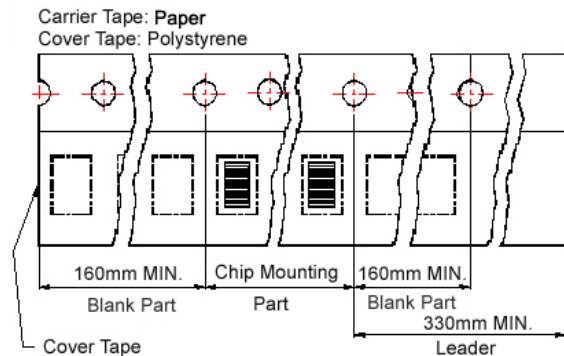
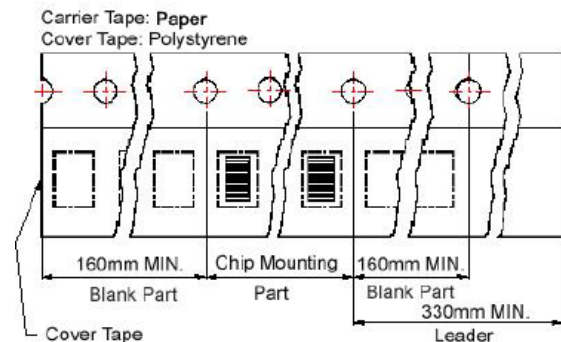
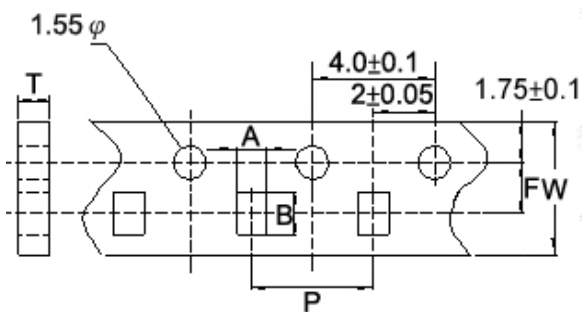
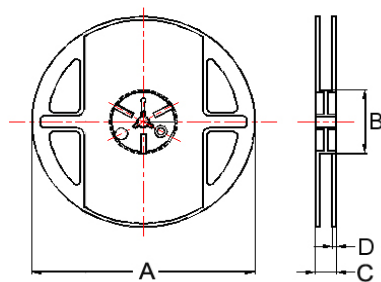


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
		A	B	T	W	P	F	K	A	B	C	D	
AWLM00110706	1	0.8	1.2	0.75	8	2	3.5	0.62	178	60	12	1.5	4000
AWLM00181009	2	1.2	2.0	1.1	8	4	3.5	-	178	60	12	1.5	4000

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.