

Chip Inductor AWLD Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

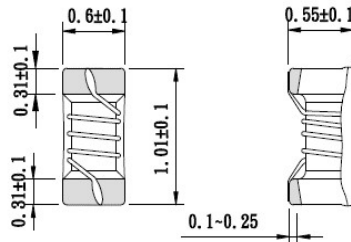


Part Numbering

A	WLD	00	100505	20N	J	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			100505 1.01x0.6x0.55	20N 20	C ±0.2nH	
			181010 1.8x1.0x0.95	100 10	J ±5%	
					K ±10%	
					M ±20%	

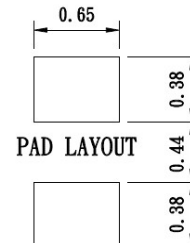
AWLD00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	Rated Current (I _{rms})(mA)Max.	Tolerance (±%)
AWLD0010050520N□00	20	100	3000	0.028	2200	2nH,5,10,20
AWLD0010050534N□00	34	100	2500	0.036	1800	2nH,5,10,20
AWLD0010050553N□00	53	100	2000	0.06	1300	5,10,20
AWLD0010050577N□00	77	100	2000	0.09	1100	5,10,20
AWLD00100505R11□00	106	100	1500	0.144	850	5,10,20
AWLD00100505R14□00	140	100	1000	0.216	650	5,10,20
AWLD00100505R18□00	180	100	1000	0.312	560	5,10,20
AWLD00100505R22□00	220	100	1400	0.47	450	5,10,20
AWLD00100505R27□00	270	100	830	0.52	420	5,10,20
AWLD00100505R33□00	330	100	520	0.56	390	5,10,20
AWLD00100505R39□00	390	100	450	0.62	370	5,10,20
AWLD00100505R42□00	420	10	400	0.62	370	5,10,20
AWLD00100505R47□00	470	10	380	0.66	350	5,10,20
AWLD00100505R56□00	560	10	300	0.71	300	5,10,20
AWLD00100505R68□00	680	1	290	0.78	290	10,20
AWLD00100505R82□00	820	1	200	0.84	275	10,20
AWLD001005051R0□00	1000	1	120	0.94	270	10,20
AWLD001005051R5□00	1500	1	120	1.5	190	10,20
AWLD001005052R2□00	2200	1	100	1.8	170	10,20
AWLD001005053R3□00	3300	1	80	3.65	130	10,20
AWLD00100505100□00	10000	1	20	4.7	120	10,20
AWLD00100505150□00	15000	1	20	5.7	100	10,20

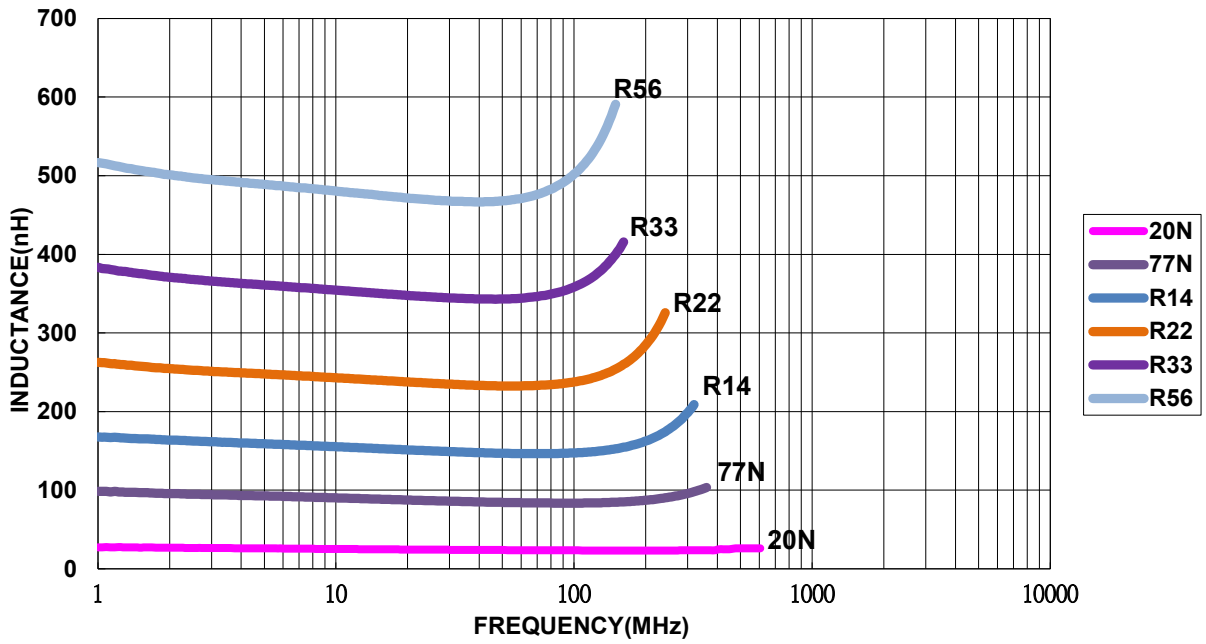
Note: □-tolerance C=±2nH/J=±5% / K=±10% /M=±20%

1. Operating temperature range -40°C ~ 125°C (Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. L/Q Test OSC @200mV.
4. Inductance would be correct Chilisin standard piece.

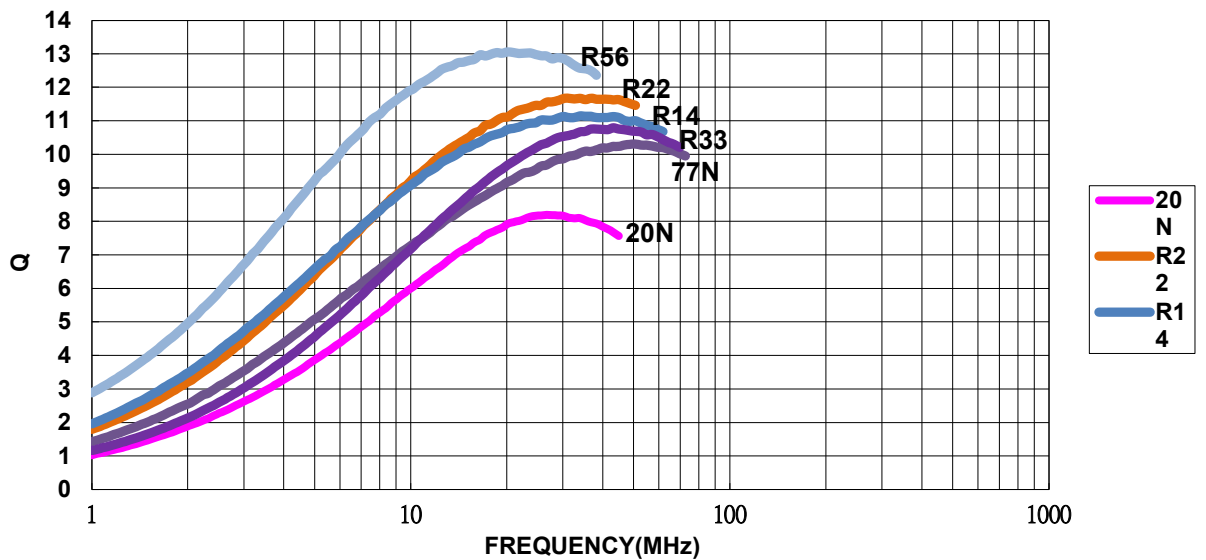
AWLD00100505 Type

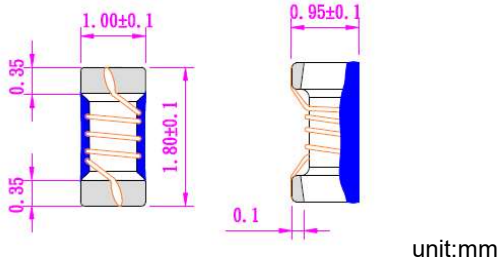
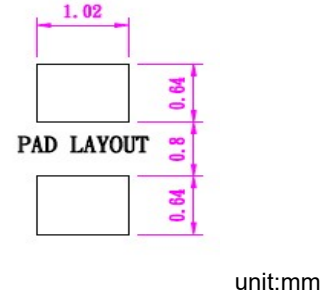
Characteristics Graph

INDUCTANCE CHANGE vs. FREQUENCY CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS



AWLD00181010 Type
■ Dimensions

■ Recommended Land Pattern

■ Electrical Characteristics

Part No.	Inductance (uH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)±30%	IDC (mA)Typ.	Irms (mA)Typ.	Tolerance (±%)
AWLD00181010R47□00	0.47	7.9/7.9	16	650	0.24	1050	1000	5,10,20
AWLD00181010R56□00	0.56	7.9/7.9	16	580	0.26	1000	950	5,10,20
AWLD00181010R65□00	0.65	7.9/7.9	16	550	0.28	950	900	5,10,20
AWLD001810101R0□00	1	7.9/7.9	16	390	0.32	860	700	5,10,20
AWLD001810102R2□00	2.2	7.9/7.9	16	82	0.56	600	580	5,10,20
AWLD001810104R7□00	4.7	7.9/7.9	16	51	0.97	400	420	5,10,20
AWLD001810106R8□00	6.8	7.9/7.9	16	43	1.5	340	340	5,10,20
AWLD00181010100□00	10	2.5/2.5	14	36	1.85	280	280	5,10,20
AWLD00181010150□00	15	2.5/2.5	14	29	2.6	240	240	5,10,20
AWLD00181010220□00	22	2.5/2.5	14	24	3.61	200	200	5,10,20

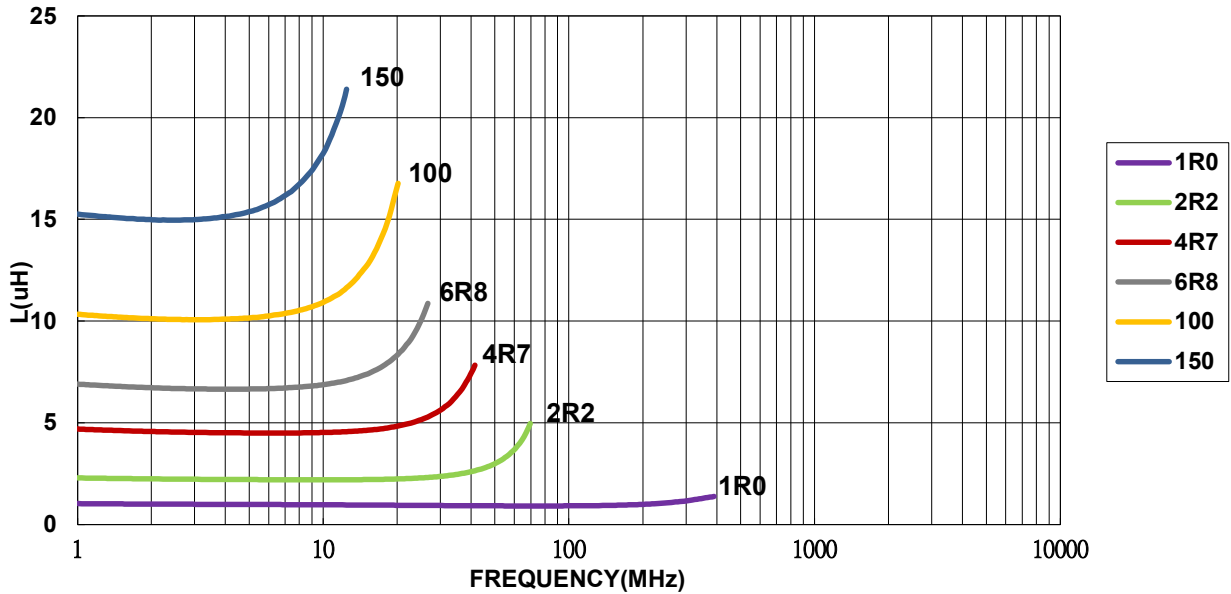
Note: □-tolerance J=±5%/ K=±10% /M=±20%

1. Operating temperature range -40°C ~ 125°C (Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. L/Q Test OSC @200mV.
4. IDC for Inductance drop 10% from its value without current.

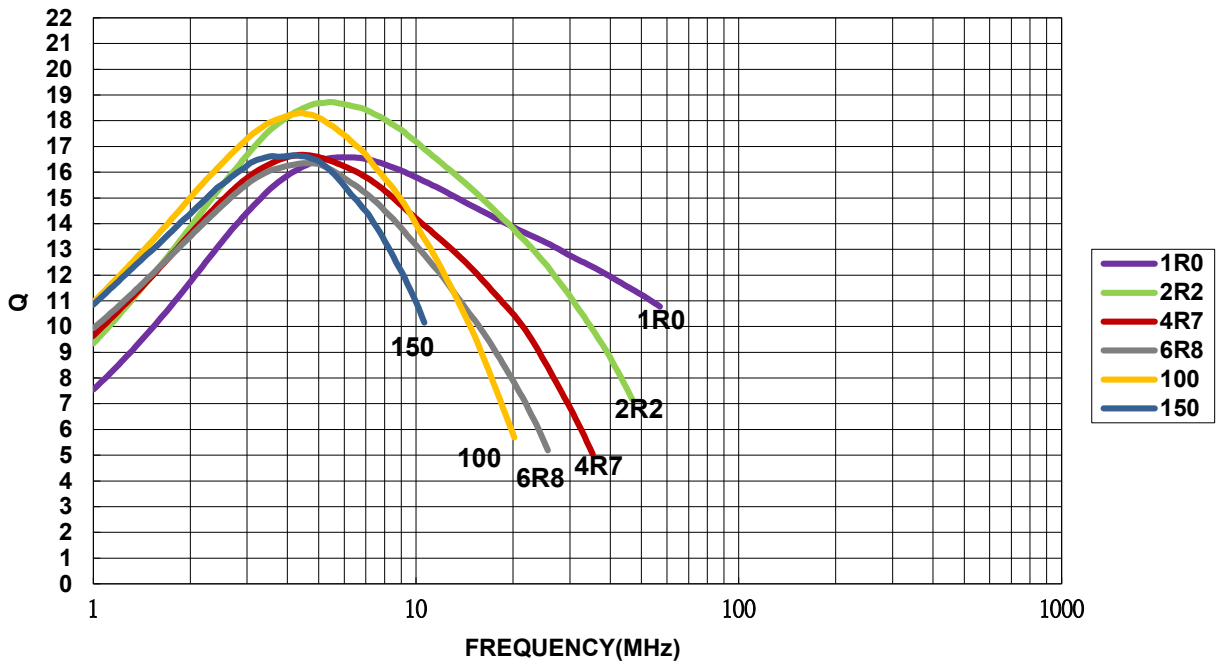
AWLD00181010 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



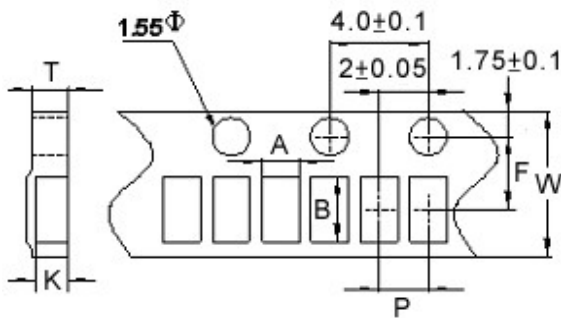
Q vs. Frequency Characteristics



■ Packaging

Tape Dimensions

Figure 1



Tape Material

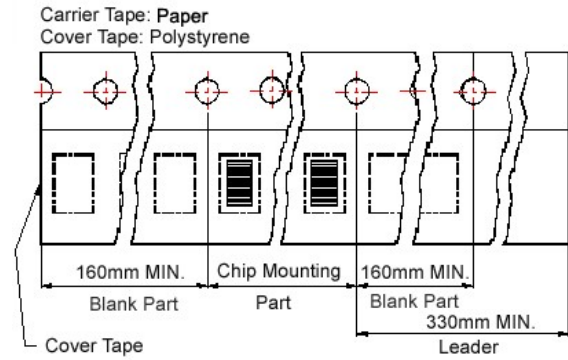
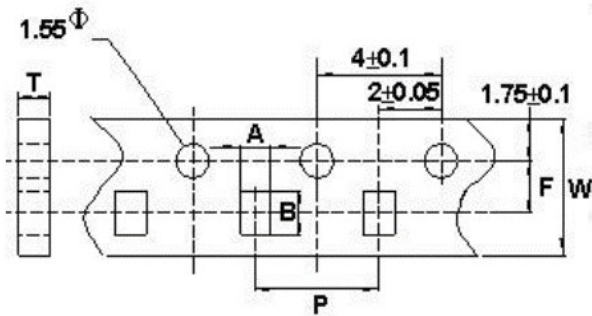
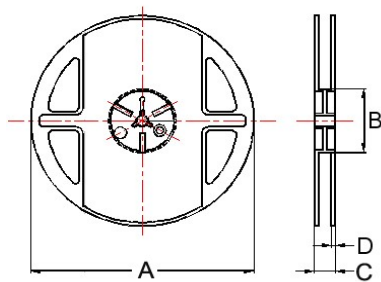


Figure 2



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	
AWLD00100505	1	0.67	1.20	0.75	8	2	3.5	0.59	178±1	60±0.5	12±0.5	1.5±0.5	4000
AWLD00181010	2	1.20	2.4	1.1	8	4	3.5	-	178±1	60±0.5	12±0.5	1.5±0.5	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.