

### AWC Series

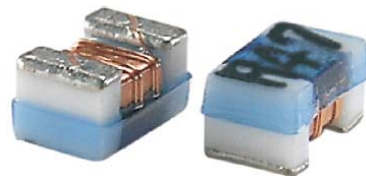
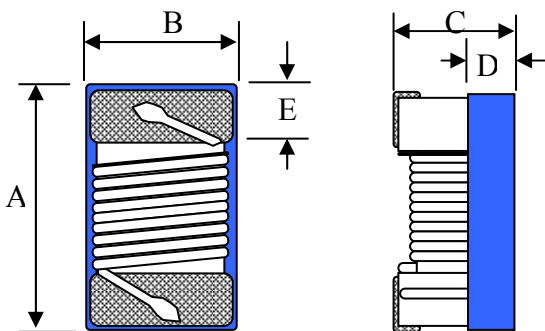
#### Features

- Can be used for high frequency bands up to GHz and stable inductance at high frequency.
- The high self resonant frequency realizes high Q value.
- Low DC resistance design is ideal for low loss, high output and low power consumption.

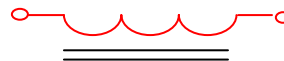
#### Applications

- The AWC Series are wire wound chip inductors widely used in the communication applications.
- Such as cellular phones,cable modems,ADSL,repeaters,Bluetooth,and other electronic devices.

#### Configuration and Dimensions (Unit:m/m)



Equivalent Circuit Diagram



TYPE	METRIC	A	B	C	D	E	Q'Ty / Reel
AWC120606	0402	1.2	0.6	0.6	0.25	0.23±0.1	4000
AWC161012	0603	1.8	1.2	1.2	0.38	0.35±0.1	2000
AWC201212	0805	2.4	1.73	1.52	0.51	0.45±0.1	2000
AWC252018	1008	2.92	2.79	2.2	1.2	0.55±0.1	2000

#### Part Number Code

AWC    120606    □    1N0  
 A        B        C        D

A: Type of product  
 B: Dimensions(mm)  
 C: Tolerance  
 D: Inductance

Wire Wound Ceramic  
 120606: 1.2X0.6X0.6  
 B: ±0.2nH S: ±0.3nH G: ±2% J: ±5% K: ±10%  
 1N0=1.0nH

## AWC Series

Part Number	Inductance (nH)	Inductance Tolerance	Test Frequency (Hz)	Q min.	Raed Current Max. (mA)	DC Resistance (Ω)Max.	SRF Min. (GHz)
AWC120606□-1N0	1.0	J,K	0.1V/250M	16	1360	0.045	12.70
AWC120606□-1N9	1.9	J,K	0.1V/250M	16	1040	0.070	11.30
AWC120606□-2N0	2	J,K	0.1V/250M	16	1040	0.070	11.10
AWC120606□-2N2	2.2	J,K	0.1V/250M	19	960	0.070	10.80
AWC120606□-2N4	2.4	J,K	0.1V/250M	15	790	0.068	10.50
AWC120606□-2N7	2.7	J,K	0.1V/250M	16	640	0.120	10.40
AWC120606□-3N3	3.3	J,K	0.1V/250M	19	840	0.066	7.00
AWC120606□-3N6	3.6	J,K	0.1V/250M	19	840	0.066	6.80
AWC120606□-3N9	3.9	J,K	0.1V/250M	19	840	0.066	6.00
AWC120606□-4N3	4	J,K	0.1V/250M	18	700	0.091	6.00
AWC120606□-4N7	4.7	J,K	0.1V/250M	15	640	0.130	4.77
AWC120606□-5N1	5.1	J,K	0.1V/250M	20	800	0.083	4.80
AWC120606□-5N6	5.6	J,K	0.1V/250M	20	760	0.083	4.80
AWC120606□-6N2	6.2	J,K	0.1V/250M	20	760	0.083	4.80
AWC120606□-6N8	6.8	J,K	0.1V/250M	20	680	0.120	4.80
AWC120606□-7N5	7.5	J,K	0.1V/250M	22	680	0.100	4.80
AWC120606□-8N2	8.2	J,K	0.1V/250M	22	680	0.100	4.40
AWC120606□-8N7	8.7	J,K	0.1V/250M	18	480	0.200	4.10
AWC120606□-9N0	9.0	J,K	0.1V/250M	22	680	0.100	4.16
AWC120606□-9N5	9.5	J,K	0.1V/250M	18	480	0.200	4.00
AWC120606□-10N	10	J,K	0.1V/250M	21	480	0.200	3.90
AWC120606□-11N	11	J,K	0.1V/250M	24	640	0.120	3.68
AWC120606□-12N	12	J,K	0.1V/250M	24	640	0.120	3.60
AWC120606□-13N	13	J,K	0.1V/250M	24	440	0.210	3.45
AWC120606□-15N	15	J,K	0.1V/250M	24	560	0.170	3.28
AWC120606□-16N	16	J,K	0.1V/250M	24	560	0.220	3.10
AWC120606□-18N	18	J,K	0.1V/250M	25	420	0.230	3.10
AWC120606□-19N	19	J,K	0.1V/250M	24	480	0.200	3.04
AWC120606□-20N	20	J,K	0.1V/250M	25	420	0.250	3.00
AWC120606□-22N	22	J,K	0.1V/250M	25	400	0.300	2.80
AWC120606□-23N	23	J,K	0.1V/250M	22	400	0.300	2.72
AWC120606□-24N	24	J,K	0.1V/200M	25	400	0.300	2.70
AWC120606□-27N	27	J,K	0.1V/200M	24	400	0.300	2.48
AWC120606□-30N	30	J,K	0.1V/200M	25	400	0.300	2.35
AWC120606□-33N	33	J,K	0.1V/200M	24	400	0.400	2.35
AWC120606□-36N	36	J,K	0.1V/150M	24	320	0.440	2.32
AWC120606□-39N	39	J,K	0.1V/150M	25	200	0.550	2.10
AWC120606□-40N	40	J,K	0.1V/150M	24	320	0.440	2.24
AWC120606□-43N	43	J,K	0.1V/150M	25	100	0.810	2.03
AWC120606□-47N	47	J,K	0.1V/150M	20	150	0.830	2.10
AWC120606□-51N	51	J,K	0.1V/150M	25	100	0.820	1.75
AWC120606□-56N	56	J,K	0.1V/100M	22	100	0.970	1.76
AWC120606□-68N	68	J,K	0.1V/100M	22	100	1.120	1.62
AWC120606□-82N	82	J,K	0.1V/100M	20	50	1.550	1.26
AWC120606□-R10	100	J,K	0.1V/100M	20	30	2.000	1.16

## AWC Series

Part Number	Inductance (nH)	Inductance Tolerance	Test Frequency (Hz)	Q min.	Raed Current Max. (mA)	DC Resistance (Ω)Max.	SRF Min. (KHz)
AWC161012□-1N6	1.6	B,S	0.1V/250M	24	700	0.030	> 6000
AWC161012□-1N8	1.8	B,S	0.1V/250M	16	700	0.045	> 6000
AWC161012□-2N0	2.0	B,S	0.1V/250M	13	700	0.070	> 6000
AWC161012□-2N2	2.2	B,S	0.1V/250M	13	700	0.070	> 6000
AWC161012□-3N3	3.3	B,S	0.1V/250M	20	700	0.045	> 6000
AWC161012□-3N6	3.6	J,B,S	0.1V/250M	22	700	0.063	> 6000
AWC161012□-3N9	3.9	J,B,S	0.1V/250M	22	700	0.070	> 6000
AWC161012□-4N3	4.3	B,J,S	0.1V/250M	22	700	0.063	5900
AWC161012□-4N7	4.7	B,J,S	0.1V/250M	20	700	0.120	5800
AWC161012□-5N1	5.1	B,J,S	0.1V/250M	20	700	0.140	5700
AWC161012□-5N6	5.6	B,J,S	0.1V/250M	20	700	0.120	5800
AWC161012□-6N2	6.2	B,J,K	0.1V/250M	27	700	0.110	5800
AWC161012□-6N8	6.8	B,J,K	0.1V/250M	27	700	0.110	5800
AWC161012□-7N5	7.5	B,J,K	0.1V/250M	28	700	0.120	4800
AWC161012□-8N2	8.2	B,J,K	0.1V/250M	30	700	0.120	4700
AWC161012□-8N7	8.7	B,J,K	0.1V/250M	28	700	0.109	4600
AWC161012□-9N5	9.5	B,J,K	0.1V/250M	28	700	0.135	5400
AWC161012□-10N	10	G,J,K	0.1V/250M	31	700	0.130	4800
AWC161012□-11N	11	G,J,K	0.1V/250M	30	700	0.130	4000
AWC161012□-12N	12	G,J,K	0.1V/250M	35	700	0.130	4000
AWC161012□-15N	15	G,J,K	0.1V/250M	35	700	0.130	4000
AWC161012□-16N	16	G,J,K	0.1V/250M	34	700	0.130	3300
AWC161012□-18N	18	G,J,K	0.1V/250M	35	700	0.170	3100
AWC161012□-22N	22	G,J,K	0.1V/250M	38	700	0.190	3000
AWC161012□-24N	24	G,J,K	0.1V/250M	38	700	0.190	3000
AWC161012□-27N	27	G,J,K	0.1V/250M	40	600	0.220	2800
AWC161012□-30N	30	G,J,K	0.1V/250M	37	600	0.144	2250
AWC161012□-33N	33	G,J,K	0.1V/250M	40	600	0.220	2300
AWC161012□-36N	36	G,J,K	0.1V/250M	37	600	0.250	2080
AWC161012□-39N	39	G,J,K	0.1V/250M	40	600	0.250	2200
AWC161012□-43N	43	G,J,K	0.1V/250M	38	600	0.280	2000
AWC161012□-47N	47	G,J,K	0.1V/250M	38	600	0.280	2000
AWC161012□-51N	51	G,J,K	0.1V/250M	35	600	0.310	1900
AWC161012□-56N	56	G,J,K	0.1V/250M	38	600	0.310	1900
AWC161012□-68N	68	G,J,K	0.1V/250M	37	600	0.340	1700
AWC161012□-72N	72	G,J,K	0.1V/250M	34	400	0.490	1700
AWC161012□-82N	82	G,J,K	0.1V/250M	34	400	0.540	1700
AWC161012□-R10	100	G,J,K	0.1V/250M	34	400	0.580	1400
AWC161012□-R11	110	G,J,K	0.1V/250M	32	300	0.610	1350
AWC161012□-R12	120	G,J,K	0.1V/250M	32	300	0.750	1300
AWC161012□-R15	150	G,J,K	0.1V/250M	28	280	0.920	990
AWC161012□-R18	180	G,J,K	0.1V/250M	25	240	1.520	990
AWC161012□-R20	200	G,J,K	0.1V/250M	25	200	1.980	900
AWC161012□-R22	220	G,J,K	0.1V/250M	25	200	2.020	900
AWC161012□-R25	250	G,J,K	0.1V/250M	25	120	2.200	880

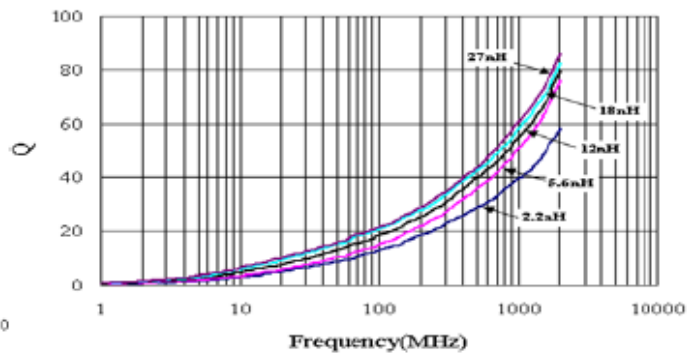
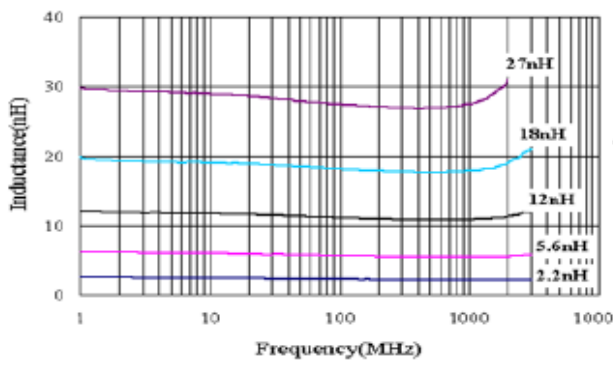
## AWC Series

Part Number	Inductance (nH)	Inductance Tolerance	Test Frequency (Hz)	Q min.	Raed Current Max. (mA)	DC Resistance (Ω)Max.	SRF Min. (KHz)
AWC161012□-R27	270	G,J,K	0.1V/250M	24	170	2.360	900
AWC161012□-R33	330	G,J,K	0.1V/250M	25	100	3.200	900
AWC161012□-R39	390	G,J,K	0.1V/250M	25	100	3.600	700
AWC201212□-2N0	2.0	B,S	0.1V/250M	45/1500	800	0.030	>6000
AWC201212□-2N2	2.2	B,S	0.1V/250M	45/1500	750	0.030	>6000
AWC201212□-2N5	2.5	B,S	0.1V/250M	45/1500	700	0.030	>6000
AWC201212□-2N8	2.8	B,S	0.1V/250M	45/1500	700	0.060	>6000
AWC201212□-3N0	3.0	B,S	0.1V/250M	30/1500	800	0.060	>6000
AWC201212□-3N3	3.3	B,S	0.1V/250M	30/1500	600	0.120	>6000
AWC201212□-3N9	3.9	B,S	0.1V/250M	70/1500	800	0.040	5750
AWC201212□-4N7	4.7	B,J,K	0.1V/250M	70/1500	800	0.040	5500
AWC201212□-5N6	5.6	B,J,K	0.1V/250M	55/1000	600	0.080	5500
AWC201212□-6N8	6.8	B,J,K	0.1V/250M	50/1000	600	0.110	5500
AWC201212□-7N5	7.5	B,J,K	0.1V/250M	50/1000	600	0.140	4800
AWC201212□-8N2	8.2	B,J,K	0.1V/250M	50/1000	600	0.120	4400
AWC201212□-9N1	9.1	B,J,K	0.1V/250M	65/1000	600	0.080	4400
AWC201212□-10N	10	G,J,K	0.1V/250M	50/500	600	0.100	4300
AWC201212□-12N	12	G,J,K	0.1V/250M	50/500	600	0.150	4000
AWC201212□-15N	15	G,J,K	0.1V/250M	50/500	600	0.170	3400
AWC201212□-16N	16	B,J,K	0.1V/250M	50/500	600	0.170	3300
AWC201212□-18N	18	G,J,K	0.1V/250M	50/500	600	0.200	3300
AWC201212□-22N	22	G,J,K	0.1V/250M	55/500	500	0.220	2600
AWC201212□-24N	24	G,J,K	0.1V/250M	50/500	500	0.220	2000
AWC201212□-27N	27	G,J,K	0.1V/250M	55/500	500	0.250	2500
AWC201212□-33N	33	G,J,K	0.1V/250M	60/500	500	0.270	2100
AWC201212□-36N	36	G,J,K	0.1V/250M	55/500	500	0.270	1900
AWC201212□-39N	39	G,J,K	0.1V/250M	60/500	500	0.290	2000
AWC201212□-43N	43	G,J,K	0.1V/200M	60/500	500	0.340	1650
AWC201212□-47N	47	G,J,K	0.1V/200M	60/500	500	0.310	1650
AWC201212□-56N	56	G,J,K	0.1V/200M	60/500	500	0.340	1550
AWC201212□-68N	68	G,J,K	0.1V/200M	60/500	500	0.380	1500
AWC201212□-82N	82	G,J,K	0.1V/150M	65/500	400	0.420	1330
AWC201212□-91N	91	G,J,K	0.1V/150M	55/500	400	0.480	1250
AWC201212□-R10	100	G,J,K	0.1V/150M	65/500	400	0.460	1200
AWC201212□-R11	110	G,J,K	0.1V/150M	50/250	400	0.480	1100
AWC201212□-R12	120	G,J,K	0.1V/150M	50/250	400	0.510	1100
AWC201212□-R15	150	G,J,K	0.1V/100M	50/250	400	0.560	920
AWC201212□-R18	180	G,J,K	0.1V/100M	50/250	400	0.640	920
AWC201212□-R22	220	G,J,K	0.1V/100M	50/250	400	1.100	850
AWC201212□-R24	240	G,J,K	0.1V/100M	44/250	350	1.000	710
AWC201212□-R27	270	G,J,K	0.1V/100M	48/250	350	1.300	680
AWC201212□-R29	290	G,J,K	0.1V/100M	48/250	330	1.300	660
AWC201212□-R33	330	G,J,K	0.1V/100M	48/250	310	1.400	650
AWC252018□-4N7	4.7	B,S	0.1V/50M	60/1500	1000	0.110	>6000
AWC252018□-10N	10.0	G,J,K	0.1V/50M	50/500	1000	0.080	4100

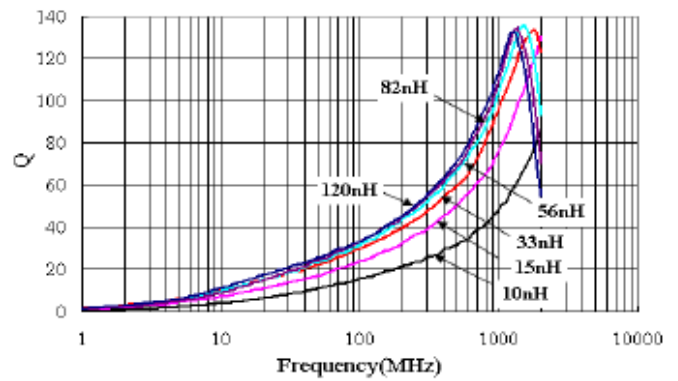
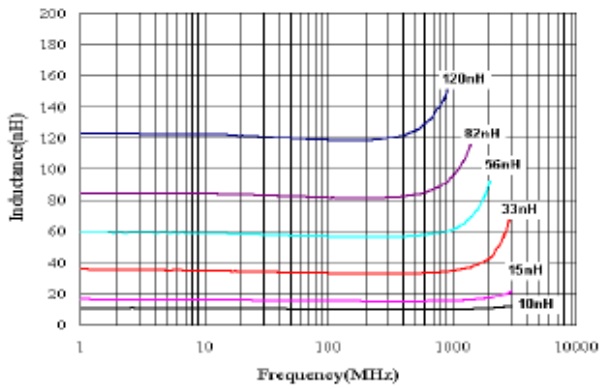
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Part Number	Inductance (nH)	Inductance Tolerance	Test Frequency (Hz)	Q min.	Raed Current Max. (mA)	DC Resistance (Ω)Max.	SRF Min. (KHz)
AWC252018□-12N	12.0	G,J,K	0.1V/50M	50/500	1000	0.090	3300
AWC252018□-15N	15.0	G,J,K	0.1V/50M	50/500	1000	0.100	2500
AWC252018□-18N	18.0	G,J,K	0.1V/50M	50/350	1000	0.110	2500
AWC252018□-22N	22.0	G,J,K	0.1V/50M	55/350	1000	0.120	2400
AWC252018□-24N	24.0	G,J,K	0.1V/50M	55/350	1000	0.130	2300
AWC252018□-27N	27	G,J,K	0.1V/50M	55/350	1000	0.130	1600
AWC252018□-33N	33	G,J,K	0.1V/50M	60/350	1000	0.140	1600
AWC252018□-39N	39	G,J,K	0.1V/50M	60/350	1000	0.150	1500
AWC252018□-47N	47.0	G,J,K	0.1V/50M	65/350	1000	0.160	1500
AWC252018□-56N	56.0	G,J,K	0.1V/50M	65/350	1000	0.180	1300
AWC252018□-68N	68.0	G,J,K	0.1V/50M	65/350	1000	0.200	1300
AWC252018□-82N	82.0	G,J,K	0.1V/50M	60/350	1000	0.220	1000
AWC252018□-R10	100	G,J,K	0.1V/25M	60/350	650	0.560	1000
AWC252018□-R12	120	G,J,K	0.1V/25M	60/350	650	0.630	950
AWC252018□-R15	150	G,J,K	0.1V/25M	45/100	580	0.700	850
AWC252018□-R18	180	G,J,K	0.1V/25M	45/100	620	0.770	750
AWC252018□-R20	200	G,J,K	0.1V/25M	45/100	530	0.770	720
AWC252018□-R22	220	G,J,K	0.1V/25M	45/100	500	0.840	700
AWC252018□-R24	240	G,J,K	0.1V/25M	45/100	500	0.840	650
AWC252018□-R27	270	G,J,K	0.1V/25M	45/100	500	0.910	600
AWC252018□-R33	330	G,J,K	0.1V/25M	45/100	450	1.050	570
AWC252018□-R39	390	G,J,K	0.1V/25M	45/100	470	1.120	500
AWC252018□-R47	470	G,J,K	0.1V/25M	45/100	470	1.190	450
AWC252018□-R53	530	G,J,K	0.1V/25M	45/100	400	1.300	430
AWC252018□-R56	560	G,J,K	0.1V/25M	45/100	400	1.330	415

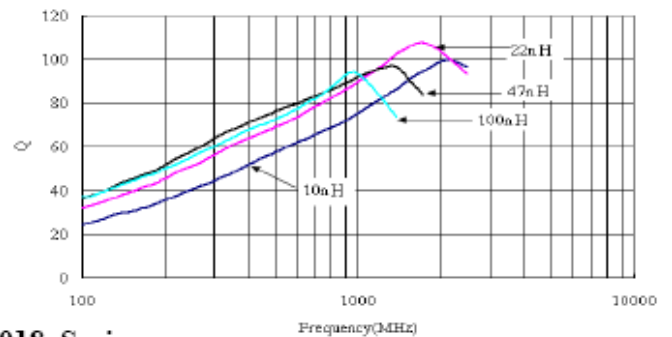
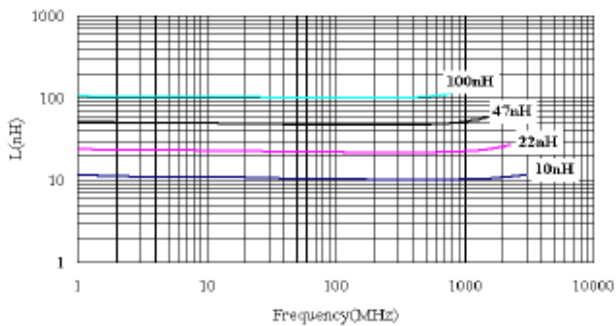
### AWC120606 Series



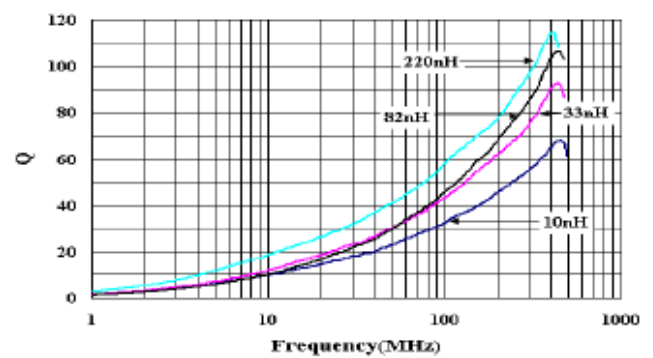
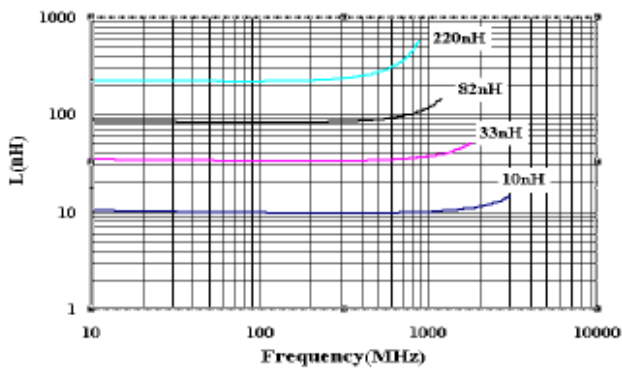
### AWC161012 Series



### AWC201212 Series



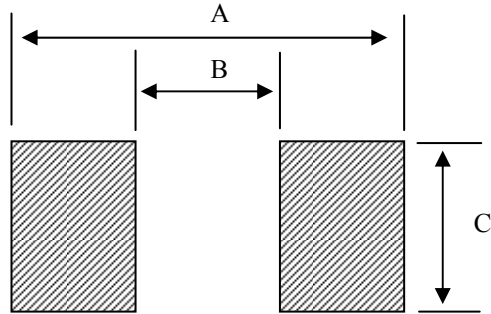
### AWC252018 Series



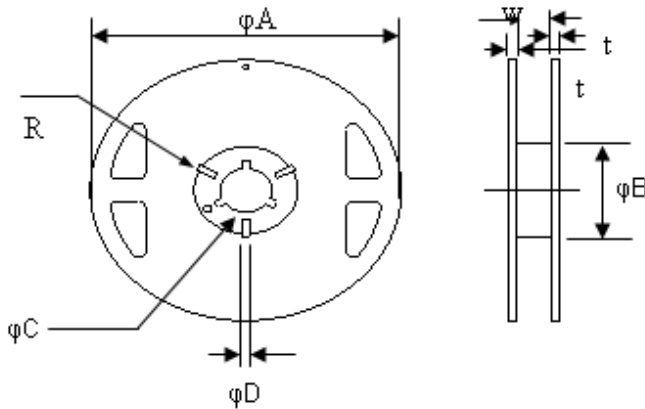
### Packing

#### 1. Recommended Footprint(Unit:mm)

TYPE	A	B	C
AWC120606	1.18	0.46	0.66
AWC161012	1.92	0.64	1.10
AWC201212	2.80	1.00	1.80
AWC252018	3.30	1.30	2.54



#### 2. Packing Reel Dimension(Unit:mm)



Symbol	T
A	1.8±0.3
B	60±1.0
C	13±0.2
D	2.2±0.5
W	9.0±0.3
T	1.2
R	1.0

#### 3. Tape Dimension(Unit:mm)

