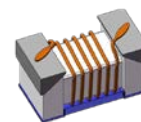


Wire Wound Chip Ceramic Inductor—AWL-C-M Series

Operating Temp. : -40°C~+125°C



FEATURES

- Small chip suitable for surface mounting
- High inductance tolerance and high reliability
- AEC-Q200 verified
- High Q value and high self-resonant frequency with ceramic material

APPLICATIONS

- Infotainment system
- Passive keyless entry
- Tire pressure monitoring system
- ADAS
- T-Box

PRODUCT IDENTIFICATION

AWL
①

1005
②

C
③

10N
④

J
⑤

S
⑥

T
⑦

F
⑧

M01
⑨

① Type	
AWL	Wire Wound Chip Inductor for Automotive

② External Dimensions	
1005 [0402]	1.0×0.5

③ Material Code	
C	Ceramic

④ Nominal Inductance	
Example	Nominal Value
4N7	4.7nH
10N	10nH
R10	100nH

⑤ Inductance Tolerance	
B	±0.1nH
C	±0.2nH
D	±0.5nH
G	±2%
H	±3%
J	±5%
K	±10%

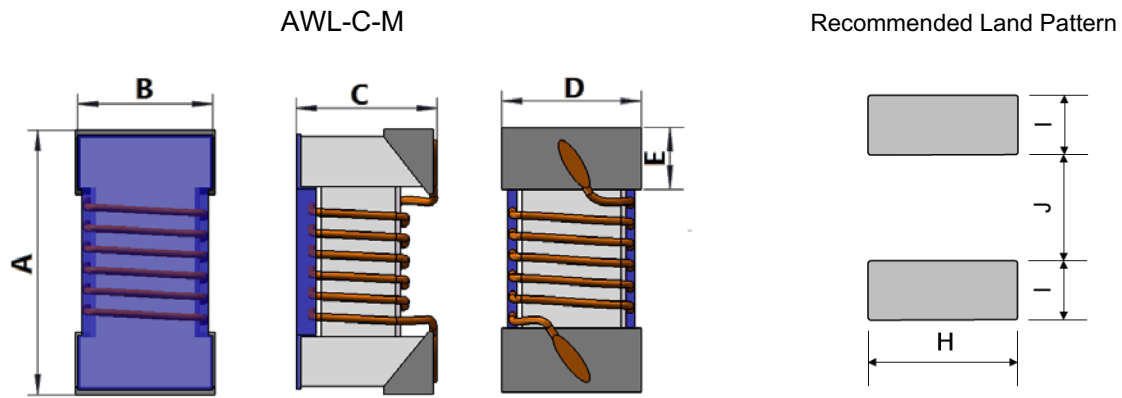
⑥ Feature Type	
S	Sn Plating Single-side Coating

⑦ Packing	
T	Tape & Reel

⑧ Hazardous Substance Free Products	
F	

⑨ Internal Code	
M01	Normal

SHAPE AND DIMENSIONS



Unit: mm

A	B	C	D	E	H REF.	I REF.	J REF.
1.1±0.1	0.5±0.1	0.6±0.1	0.6±0.1	0.2±0.1	0.65	0.35	0.50

SPECIFICATIONS

AWL1005C-M01 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L,Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	I _r	S.R.F
AWL1005C1N5□STFM01	1.5	B, C, D	10	100/250	0.03	1000	18000
AWL1005C1N6□STFM01	1.6	B, C, D	10	100/250	0.07	750	17000
AWL1005C1N7□STFM01	1.7	B, C, D	10	100/250	0.10	640	17000
AWL1005C1N8□STFM01	1.8	B, C, D	10	100/250	0.16	460	16000
AWL1005C2N4□STFM01	2.4	B, C, D	20	100/250	0.05	850	15000
AWL1005C2N5□STFM01	2.5	B, C, D	20	100/250	0.05	850	15000
AWL1005C2N6□STFM01	2.6	B, C, D	20	100/250	0.05	850	15000
AWL1005C2N7□STFM01	2.7	B, C, D	20	100/250	0.05	850	15000
AWL1005C2N8□STFM01	2.8	B, C, D	20	100/250	0.05	850	15000
AWL1005C2N9□STFM01	2.9	B, C, D	20	100/250	0.07	750	15000
AWL1005C3N0□STFM01	3.0	C, D	20	100/250	0.07	750	15000
AWL1005C3N1□STFM01	3.1	B, C, D	20	100/250	0.13	570	14000
AWL1005C3N2□STFM01	3.2	B, C, D	15	100/250	0.17	500	14000
AWL1005C3N9□STFM01	3.9	B, C, D	25	100/250	0.07	750	10000
AWL1005C4N1□STFM01	4.1	B, C, D	25	100/250	0.07	750	10000
AWL1005C4N3□STFM01	4.3	B, C, D	25	100/250	0.07	750	10000
AWL1005C4N4□STFM01	4.4	B, C, D	25	100/250	0.07	750	8000
AWL1005C4N5□STFM01	4.5	C, D	25	100/250	0.07	750	8000
AWL1005C4N6□STFM01	4.6	B, C, D	25	100/250	0.07	750	8000
AWL1005C4N7□STFM01	4.7	B, C, D	25	100/250	0.07	750	8000

SPECIFICATIONS

AWL1005C-M01 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L,Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	I _r	S.R.F
AWL1005C4N8□STFM01	4.8	B, C, D	25	100/250	0.07	750	8000
AWL1005C4N9□STFM01	4.9	C, D	25	100/250	0.12	600	8000
AWL1005C5N0□STFM01	5.0	B, C, D	25	100/250	0.12	600	8000
AWL1005C5N1□STFM01	5.1	B, C, D	25	100/250	0.12	600	8000
AWL1005C5N8□STFM01	5.8	B, C, D	25	100/250	0.12	700	8000
AWL1005C6N2□STFM01	6.2	B, C, D	25	100/250	0.09	700	8000
AWL1005C6N3□STFM01	6.3	B, C, D	25	100/250	0.09	700	6000
AWL1005C6N4□STFM01	6.4	B, C, D	25	100/250	0.09	700	6000
AWL1005C6N5□STFM01	6.5	B, C, D	25	100/250	0.09	700	6000
AWL1005C6N6□STFM01	6.6	B, C, D	25	100/250	0.09	700	6000
AWL1005C6N7□STFM01	6.7	B, C, D	25	100/250	0.09	700	6000
AWL1005C6N8□STFM01	6.8	G, H, J, K	25	100/250	0.09	700	6000
AWL1005C6N9□STFM01	6.9	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C7N0□STFM01	7.0	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C7N1□STFM01	7.1	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C7N2□STFM01	7.2	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C7N3□STFM01	7.3	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C7N5□STFM01	7.5	G, H, J, K	25	100/250	0.13	570	6000
AWL1005C8N2□STFM01	8.2	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C8N6□STFM01	8.6	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C8N7□STFM01	8.7	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C8N8□STFM01	8.8	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C8N9□STFM01	8.9	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N0□STFM01	9.0	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N1□STFM01	9.1	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N2□STFM01	9.2	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N3□STFM01	9.3	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N4□STFM01	9.4	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N5□STFM01	9.5	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N6□STFM01	9.6	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N7□STFM01	9.7	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N8□STFM01	9.8	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C9N9□STFM01	9.9	G, H, J, K	25	100/250	0.14	540	5500
AWL1005C10N□STFM01	10	G, H, J, K	25	100/250	0.17	500	5500
AWL1005C11N□STFM01	11	G, H, J, K	30	100/250	0.14	500	5500
AWL1005C12N□STFM01	12	G, H, J, K	30	100/250	0.14	500	5500
AWL1005C13N□STFM01	13	G, H, J, K	25	100/250	0.21	430	5000
AWL1005C15N□STFM01	15	G, H, J, K	30	100/250	0.16	460	5000
AWL1005C16N□STFM01	16	G, H, J, K	25	100/250	0.24	370	4500

SPECIFICATIONS

AWL1005C-M01 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L,Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	I _r	S.R.F
AWL1005C18N□STFM01	18	G, H, J, K	25	100/250	0.27	370	4500
AWL1005C19N□STFM01	19	G, H, J, K	25	100/250	0.27	370	4500
AWL1005C20N□STFM01	20	G, H, J, K	25	100/250	0.27	370	4000
AWL1005C22N□STFM01	22	G, H, J, K	25	100/250	0.30	310	4000
AWL1005C23N□STFM01	23	G, H, J, K	25	100/250	0.30	310	3800
AWL1005C24N□STFM01	24	G, H, J, K	25	100/250	0.52	280	3500
AWL1005C27N□STFM01	27	G, H, J, K	25	100/250	0.52	280	3500
AWL1005C30N□STFM01	30	G, H, J, K	25	100/250	0.58	270	3300
AWL1005C33N□STFM01	33	G, H, J, K	25	100/250	0.63	260	3200
AWL1005C36N□STFM01	36	G, H, J, K	25	100/250	0.63	260	3100
AWL1005C39N□STFM01	39	G, H, J, K	25	100/250	0.70	250	3000
AWL1005C40N□STFM01	40	G, H, J, K	25	100/250	0.70	250	3000
AWL1005C43N□STFM01	43	G, H, J, K	25	100/250	0.70	250	3000
AWL1005C47N□STFM01	47	G, H, J, K	25	100/200	1.08	210	2900
AWL1005C51N□STFM01	51	G, H, J, K	25	100/200	1.08	210	2850
AWL1005C56N□STFM01	56	G, H, J, K	25	100/200	1.17	200	2800
AWL1005C62N□STFM01	62	G, H, J, K	20	100/200	1.82	145	2600
AWL1005C68N□STFM01	68	G, H, J, K	20	100/200	1.96	140	2500
AWL1005C72N□STFM01	72	G, H, J, K	20	100/150	2.10	135	2500
AWL1005C75N□STFM01	75	G, H, J, K	20	100/150	2.10	135	2400
AWL1005C82N□STFM01	82	G, H, J, K	20	100/150	2.24	130	2300
AWL1005C91N□STFM01	91	G, H, J, K	20	100/150	2.38	125	2100
AWL1005CR10□STFM01	100	G, H, J, K	20	100/150	2.52	120	1500

※ □: Please specify the inductance tolerance code (B=±0.1nH,C=±0.2nH, D=±0.5nH,G=±2%,H=±3%,J=±5%,K= ±10%)