

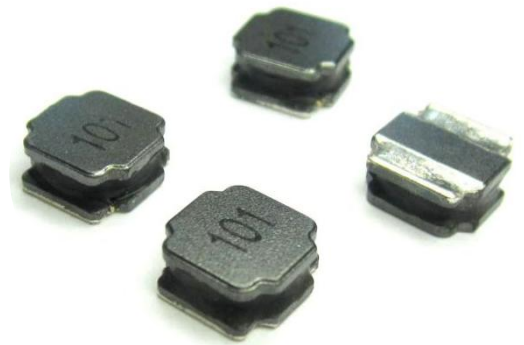
Wire-wound Magnetic Resin Power Inductor

1. Features

- Halogen free, RoSH compliant.
- Shielded with magnetic resin
- Low DCR and high rated current
- Magnetically shielded, low EMI
- Low profile, miniature package size and wide inductance range.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability

2. MPIFplications

- DC/DC converters
- Smart TV, set top box, notebook,DSC,Smart phone ,VR, AR
- Tablet PC and other portable devices.
- Car navigation systems, telecomm base stations
- Battery powered devices



3. Product Identification

<u>CG</u>	<u>W</u>	<u>N</u>	<u>505040</u>	<u>F</u>	<u>4R7</u>	<u>M</u>	<u>T</u>
↓	↓	↓	↓	↓	↓	↓	↓
1	2	3	4	5	6	7	8

1: 中磁尚善CMSS品牌 Brand:CG

2: 产品类型product symbol:

W: 绕线式电感Wire-wound inductor

3: 产品系列: 磁封胶NR功率电感

N: Magnetic sealant power inductor

4: 尺寸Dimensions: (L*W*T) 5.0*5.0*4.0mm

5: 材料代码 material code: Ferrite-F

6: 电感量 Inductance: 4R7=4.7uH

7: 公差范围Tolerance: M±20%

8: 包装packaging: 编带包装Tape&Reel: T

4. Dimensions (unit:mm)

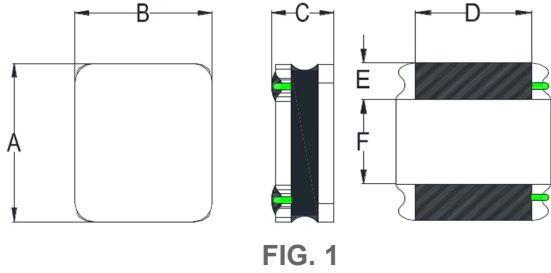


FIG. 1

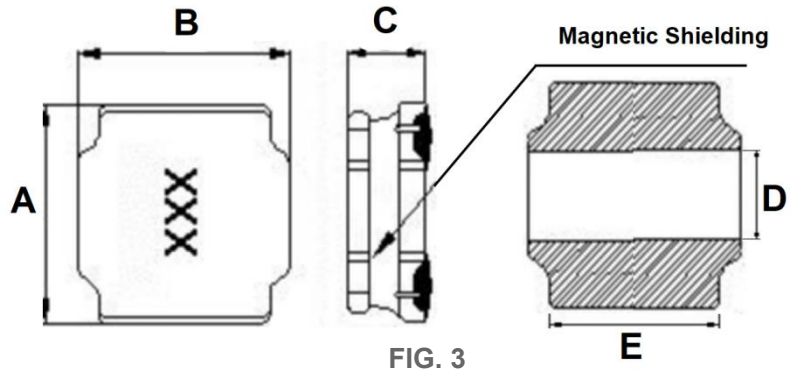


FIG. 3

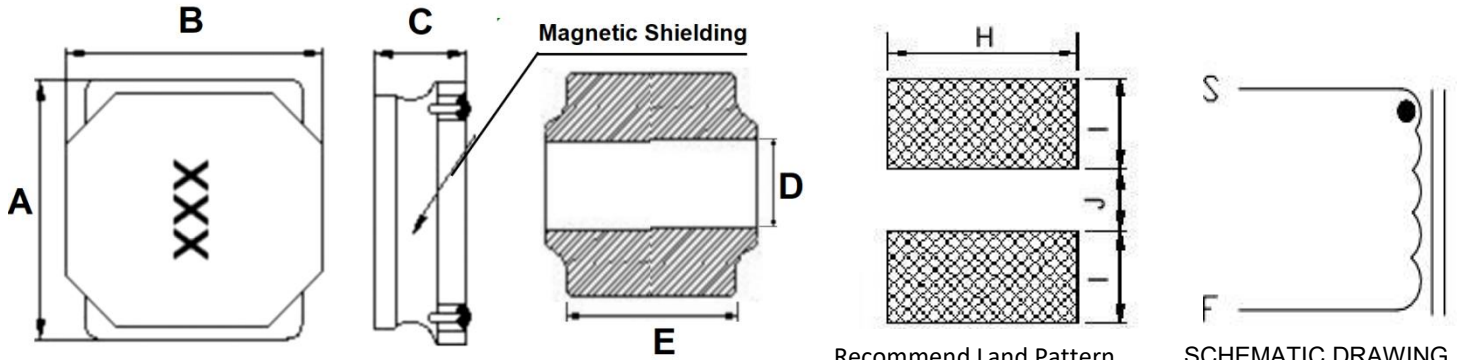


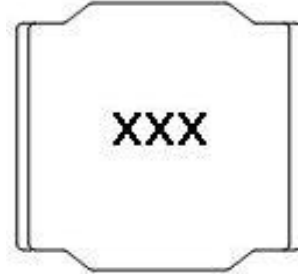
FIG. 2

series	A	B	C	D	E	FIG.	I typ	J typ	H typ
CGWN201610	2.0±0.2	1.6±0.2	1.0Max	1.0±0.2	0.6±0.2	FIG.1	0.7	0.7	1.7
CGWN252010	2.5±0.2	2.0±0.2	1.05Max	1.5±0.2	0.8±0.2	FIG.1	0.85	0.8	2
CGWN252012	2.5±0.2	2.0±0.2	1.2Max	1.5±0.2	0.8±0.2	FIG.1	0.85	0.8	2
CGWN303010	3.0±0.2	3.0±0.2	1.0Max	1.5Ref	2.5Ref	FIG.2	1	1.35	2.7
CGWN303012	3.0±0.2	3.0±0.2	1.2Max	1.2Ref	2.5Ref	FIG.2	1	1.35	2.7
CGWN303015	3.0±0.2	3.0±0.2	1.5Max	1.5±0.2	2.5Ref	FIG.3	1	1.35	2.7
CGWN404010	4.0±0.2	4.0±0.2	1.0Max	2.1Ref	3.3Typ	FIG.2	1.4	1.6	3.7
CGWN404012	4.0±0.2	4.0±0.2	1.2Max	1.8Ref	3.3Typ	FIG.2	1.4	1.6	3.7
CGWN404018	4.0±0.2	4.0±0.2	2.0Max	1.7±0.3	3.2Ref	FIG.3	1.4	1.6	3.7
CGWN404030	4.0±0.2	4.0±0.2	3.0Max	1.8±0.3	3.2Ref	FIG.3	1.4	1.6	3.7
CGWN505020	5.0±0.2	5.0±0.2	2.0Max	2.5±0.3	4.0Ref	FIG.3	1.6	2.3	4.7
CGWN505030	5.0±0.2	5.0±0.2	3.0Max	2.5±0.3	4.0Ref	FIG.3	1.6	2.3	4.7
CGWN505040	5.0±0.2	5.0±0.2	4.0Max	2.2±0.3	4.0Ref	FIG.3	1.6	2.3	4.7
CGWN606020	6.0±0.3	6.0±0.3	2.0Max	2.7±0.2	4.9Ref	FIG.3	2	2.8	5.7
CGWN606028	6.0±0.3	6.0±0.3	2.8Max	2.7±0.2	4.9Ref	FIG.3	2	2.8	5.7
CGWN606045	6.0±0.3	6.0±0.3	4.5Max	2.9Ref	5.7Ref	FIG.3	2	2.8	5.7
CGWN808040	8.0±0.3	8.0±0.3	4.2Max	3.5±0.3	6.3Ref	FIG.3	2.5	3.4	7.5

5. Marking

The inductor is marked with a 3-digit code

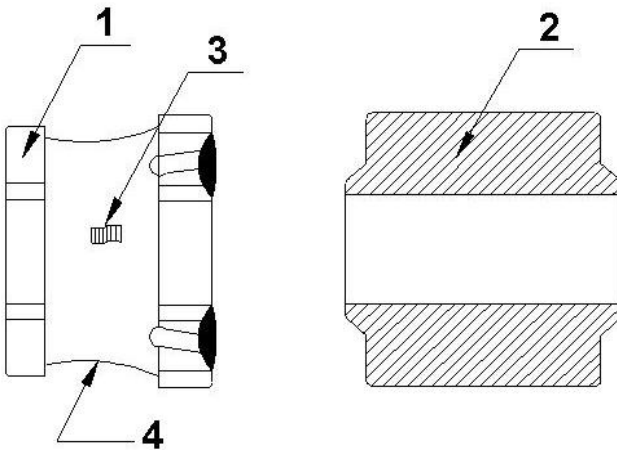
Nominal	Inductance
Example	Nominal Value
1R0	1.0 μ H
100	10 μ H
101	100 μ H



Note : Using Ink for marking

6. Structure and Components

Symbol	Components	Material
1	CORE	FERRITE
2	TERMINAL	Ag/Cu/Ni/Sn
3	WIRE	Polyurethane copper wire(Grade 180)
4	EPOXY	Magnetic powder resin





7. Electrical characteristics

• CGWN201610 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN201610FR24TT	0.24	30	0.04	0.038	3.7	3.85	2.9	3.1	R24
CGWN201610FR33TT	0.33	30	0.048	0.045	2.5	2.53	2.9	3.09	R33
CGWN201610FR47TT	0.47	30	0.059	0.056	2.3	2.39	2.35	2.41	R47
CGWN201610FR68TT	0.68	30	0.076	0.074	1.95	2.01	2.05	2.13	R68
CGWN201610F1R0MT	1.0	20,30	0.114	0.112	1.65	1.72	1.45	1.52	1R0
CGWN201610F2R2MT	2.2	20,30	0.264	0.261	1.2	1.28	1.1	1.18	2R2
CGWN201610F3R3MT	3.3	20,30	0.335	0.332	0.9	0.98	0.88	0.93	3R3
CGWN201610F4R7MT	4.7	20,30	0.479	0.476	0.7	0.83	0.74	0.82	4R7
CGWN201610F6R8MT	6.8	20,30	0.816	0.813	0.6	0.71	0.52	0.65	6R8
CGWN201610F100MT	10	20,30	1.32	1.21	0.5	0.63	0.45	0.52	100
CGWN201610F150MT	15	20,30	1.85	1.56	0.5	0.59	0.41	0.5	150
CGWN201610F220MT	22	20,30	2.2	1.92	0.34	0.38	0.36	0.4	220

• CGWN252010 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN252010FR47TT	0.47	30	0.056	0.047	2.5	3.35	2.35	2.56	R47
CGWN252010FR56TT	0.56	30	0.072	0.06	2.9	3.2	2	2.18	R56
CGWN252010FR68TT	0.68	30	0.074	0.062	2.2	2.75	2	2.18	R68
CGWN252010F1R0MT	1.0	20,30	0.108	0.09	1.85	2.2	1.65	1.8	1R0
CGWN252010F1R5MT	1.5	20,30	0.182	0.152	1.8	2.1	1.3	1.42	1R5
CGWN252010F2R2MT	2.2	20,30	0.209	0.174	1.2	1.6	1.2	1.31	2R2
CGWN252010F3R3MT	3.3	20,30	0.328	0.273	1.05	1.3	0.9	0.98	3R3
CGWN252010F4R7MT	4.7	20,30	0.563	0.469	0.95	1.15	0.7	0.76	4R7
CGWN252010F5R6MT	5.6	20,30	0.563	0.469	0.8	0.95	0.73	0.8	5R6
CGWN252010F6R8MT	6.8	20,30	0.896	0.747	0.78	0.92	0.59	0.64	6R8
CGWN252010F100MT	10	20,30	1.092	0.91	0.65	0.78	0.5	0.55	100



• CGWN252012 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		I _{rms} (A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN252012FR47TT	0.47	30	0.061	0.047	3.82	4.27	2.15	2.34	R47
CGWN252012FR68TT	0.68	30	0.074	0.057	3.28	3.68	1.95	2.13	R68
CGWN252012F1R0MT	1.0	20,30	0.09	0.069	2.59	2.9	1.93	2.1	1R0
CGWN252012F1R5MT	1.5	20,30	0.147	0.113	2.24	2.51	1.4	1.53	1R5
CGWN252012F2R2MT	2.2	20,30	0.216	0.166	1.85	2.07	1.15	1.25	2R2
CGWN252012F3R3MT	3.3	20,30	0.264	0.203	1.61	1.8	1.04	1.13	3R3
CGWN252012F4R3MT	4.3	20,30	0.377	0.29	1.37	1.53	0.87	0.95	4R3
CGWN252012F4R7MT	4.7	20,30	0.377	0.29	1.12	1.25	0.84	0.92	4R7
CGWN252012F5R1MT	5.1	20,30	0.5	0.385	1.23	1.37	0.75	0.82	5R1
CGWN252012F5R6MT	5.6	20,30	0.538	0.414	1.11	1.25	0.73	0.8	5R6
CGWN252012F6R2MT	6.2	20,30	0.542	0.417	1.03	1.16	0.73	0.8	6R2
CGWN252012F6R8MT	6.8	20,30	0.581	0.447	0.98	1.09	0.69	0.75	6R8
CGWN252012F7R5MT	7.5	20,30	0.611	0.47	0.97	1.09	0.68	0.74	7R5
CGWN252012F8R2MT	8.2	20,30	0.658	0.506	0.98	1.1	0.65	0.71	8R2
CGWN252012F100MT	10	20,30	0.69	0.531	0.79	0.88	0.62	0.68	100
CGWN252012F120MT	12	20,30	1.075	0.827	0.78	0.88	0.51	0.56	120
CGWN252012F150MT	15	20,30	1.591	1.224	0.68	0.77	0.42	0.46	150
CGWN252012F220MT	22	20,30	1.976	1.52	0.53	0.59	0.38	0.41	220



• CGWN303010 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN303010F1R0MT	1.0	20,30	0.085	0.065	1.4	2.1	1.45	1.8	1R0
CGWN303010F1R5MT	1.5	20,30	0.104	0.08	1.27	1.7	1.3	1.6	1R5
CGWN303010F2R2MT	2.2	20,30	0.143	0.11	1.15	1.5	1.09	1.4	2R2
CGWN303010F3R3MT	3.3	20,30	0.189	0.145	0.97	1.2	0.96	1.2	3R3
CGWN303010F4R7MT	4.7	20,30	0.293	0.225	0.75	1.05	0.77	1.1	4R7
CGWN303010F5R6MT	5.6	20,30	0.322	0.248	0.58	0.65	0.7	1.05	5R6
CGWN303010F6R8MT	6.8	20,30	0.397	0.305	0.55	0.72	0.66	0.96	5R6
CGWN303010F8R2MT	8.2	20,30	0.52	0.4	0.55	0.7	0.58	0.7	8R2
CGWN303010F100MT	10	20,30	0.52	0.4	0.55	0.75	0.58	0.7	100
CGWN303010F120MT	12	20,30	0.657	0.505	0.43	0.65	0.52	0.67	120
CGWN303010F150MT	15	20,30	0.793	0.61	0.42	0.57	0.47	0.57	150
CGWN303010F220MT	22	20,30	1.209	0.93	0.35	0.48	0.38	0.52	220
CGWN303010F270MT	27	20,30	1.404	1.08	0.3	0.45	0.35	0.5	270
CGWN303010F330MT	33	20,30	2.015	1.55	0.29	0.42	0.3	0.55	330
CGWN303010F390MT	39	20,30	2.275	1.75	0.28	0.38	0.28	0.53	390
CGWN303010F430MT	43	20,30	2.34	1.8	0.23	0.36	0.27	0.52	430
CGWN303010F470MT	47	20,30	2.535	1.95	0.22	0.35	0.26	0.52	470
CGWN303010F510MT	51	20,30	2.86	2.2	0.21	0.33	0.25	0.48	510
CGWN303010F560MT	56	20,30	3.016	2.32	0.21	0.28	0.24	0.35	560



• CGWN303012 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN303012FR22TT	0.22	30	0.022	0.017	5.3	6	3	3.3	R22
CGWN303012FR82TT	0.82	30	0.039	0.03	2.05	2.8	2.47	3	R82
CGWN303012F1R0MT	1.0	20,30	0.052	0.04	1.87	2.8	2.2	2.7	1R0
CGWN303012F1R2MT	1.2	20,30	0.059	0.045	2.22	2.5	2.01	2.2	1R2
CGWN303012F1R5TT	1.5	20,30	0.059	0.045	1.62	1.9	2.01	2.2	1R5
CGWN303012F1R8MT	1.8	20,30	0.082	0.063	1.3	1.9	1.65	1.8	1R8
CGWN303012F2R2MT	2.2	20,30	0.098	0.075	1.2	1.9	1.55	1.7	2R2
CGWN303012F2R4MT	2.4	20,30	0.088	0.068	1.15	1.5	1.6	1.7	2R4
CGWN303012F2R7MT	2.7	20,30	0.11	0.085	1.14	1.5	1.48	1.5	2R7
CGWN303012F3R3MT	3.3	20,30	0.13	0.1	1.05	1.5	1.36	1.4	3R3
CGWN303012F3R6MT	3.6	20,30	0.13	0.1	1.05	1.5	1.36	1.4	3R6
CGWN303012F3R9MT	3.9	20,30	0.189	0.145	1.0	1.3	1.24	1.3	3R9
CGWN303012F4R7MT	4.7	20,30	0.156	0.12	0.9	1.0	1.24	1.3	4R7
CGWN303012F5R6MT	5.6	20,30	0.226	0.174	0.8	1.1	1.13	1.24	5R6
CGWN303012F6R8MT	6.8	20,30	0.247	0.19	0.75	0.9	0.98	1.1	6R8
CGWN303012F100MT	10	20,30	0.345	0.265	0.6	0.88	0.83	0.9	100
CGWN303012F120MT	12	20,30	0.449	0.345	0.48	0.67	0.73	0.84	120
CGWN303012F150MT	15	20,30	0.468	0.36	0.45	0.62	0.71	0.77	150
CGWN303012F180MT	18	20,30	0.709	0.545	0.43	0.59	0.58	0.65	180
CGWN303012F220MT	22	20,30	0.839	0.645	0.42	0.52	0.53	0.59	220
CGWN303012F270MT	27	20,30	1.131	0.87	0.35	0.48	0.47	0.51	270
CGWN303012F330MT	33	20,30	1.138	0.875	0.36	0.46	0.46	0.5	330
CGWN303012F360MT	36	20,30	1.235	0.95	0.34	0.44	0.44	0.48	360
CGWN303012F390MT	39	20,30	1.729	1.33	0.3	0.39	0.37	0.41	390
CGWN303012F470MT	47	20,30	1.885	1.45	0.27	0.35	0.35	0.4	470
CGWN303012F560MT	56	20,30	1.794	1.38	0.26	0.33	0.28	0.4	560
CGWN303012F680MT	68	20,30	2.171	1.67	0.24	0.29	0.33	0.37	680
CGWN303012F820MT	82	20,30	3.302	2.54	0.17	0.27	0.27	0.31	820
CGWN303012F101MT	100	20,30	3.718	2.86	0.21	0.23	0.25	0.29	101



• CGWN303015 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN303015FR50TT	0.5	30	0.039	0.03	3.9	4.2	2.6	2.8	R50
CGWN303015F1R0MT	1.0	20,30	0.039	0.03	2.32	2.8	2.35	2.5	1R0
CGWN303015F1R2MT	1.2	20,30	0.052	0.04	2.21	3.1	1.95	2.3	1R2
CGWN303015F1R5MT	1.5	20,30	0.065	0.05	2.3	2.7	1.7	2.2	1R5
CGWN303015F1R8MT	1.8	20,30	0.065	0.05	1.75	2.2	1.7	2.2	1R8
CGWN303015F2R2MT	2.2	20,30	0.078	0.06	1.6	2.0	1.6	2.0	2R2
CGWN303015F2R7MT	2.7	20,30	0.098	0.075	1.52	1.9	1.43	1.9	2R7
CGWN303015F3R3MT	3.3	20,30	0.104	0.08	1.32	1.81	1.36	1.6	3R3
CGWN303015F3R6MT	3.6	20,30	0.137	0.105	1.28	1.6	1.2	1.5	3R6
CGWN303015F3R9MT	3.9	20,30	0.137	0.105	1.2	1.4	1.2	1.5	3R9
CGWN303015F4R3MT	4.3	20,30	0.15	0.115	1.2	1.4	1.14	1.3	4R3
CGWN303015F4R7MT	4.7	20,30	0.163	0.125	1.1	1.4	1.09	1.3	4R7
CGWN303015F5R1MT	5.1	20,30	0.173	0.133	1.0	1.2	1.05	1.2	5R1
CGWN303015F6R2MT	6.2	20,30	0.254	0.195	1.0	1.2	0.86	1.0	6R2
CGWN303015F6R8MT	6.8	20,30	0.26	0.2	0.85	1.1	0.85	1.1	6R8
CGWN303015F100MT	10	20,30	0.325	0.25	0.72	0.92	0.77	0.9	100
CGWN303015F120MT	12	20,30	0.416	0.32	0.7	0.9	0.68	0.89	120
CGWN303015F150MT	15	20,30	0.455	0.35	0.66	0.88	0.65	0.72	150
CGWN303015F180MT	18	20,30	0.559	0.43	0.56	0.72	0.59	0.72	180
CGWN303015F220MT	22	20,30	0.598	0.46	0.52	0.68	0.57	0.69	220
CGWN303015F270MT	27	20,30	0.949	0.73	0.48	0.56	0.45	0.56	270
CGWN303015F330MT	33	20,30	1.066	0.82	0.44	0.53	0.43	0.51	330
CGWN303015F390MT	39	20,30	1.294	0.995	0.41	0.55	0.39	0.44	390
CGWN303015F430MT	43	20,30	1.378	1.06	0.37	0.43	0.37	0.48	430
CGWN303015F470MT	47	20,30	1.625	1.25	0.35	0.43	0.35	0.44	470
CGWN303015F560MT	56	20,30	1.664	1.28	0.33	0.42	0.34	0.41	560
CGWN303015F680MT	68	20,30	3.51	2.7	0.28	0.37	0.23	0.31	680
CGWN303015F101MT	100	20,30	4.043	3.11	0.23	0.25	0.21	0.25	101
CGWN303015F151MT	150	20,30	4.94	3.8	0.18	0.22	0.19	0.23	151



山西中磁尚善科技有限公司

CMSS Technology Co., Ltd

• CGWN404010 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404010F1R0MT	1.0	20,30	0.067	0.056	2.0	2.3	1.9	2.4	1R0
CGWN404010F1R5MT	1.5	20,30	0.084	0.07	1.7	2.0	1.7	2.0	1R5
CGWN404010F2R2MT	2.2	20,30	0.102	0.085	1.2	1.5	1.5	2.0	2R2
CGWN404010F3R3MT	3.3	20,30	0.12	0.1	1.1	1.4	1.4	1.8	3R3
CGWN404010F4R7MT	4.7	20,30	0.168	0.14	0.95	1.1	1.2	1.5	4R7
CGWN404010F6R8TT	6.8	20,30	0.24	0.2	0.8	0.95	1.0	1.2	6R8
CGWN404010F100MT	10	20,30	0.36	0.3	0.62	0.75	0.75	1.0	100
CGWN404010F150MT	15	20,30	0.516	0.43	0.54	0.61	0.6	0.85	150
CGWN404010F220MT	22	20,30	0.684	0.57	0.45	0.52	0.5	0.75	220



• **CGWN404012 Type:**

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404012F1R0TT	0.82	30	0.065	0.05	3.02	3.3	1.65	2.5	R82
CGWN404012F1R0MT	1.0	20,30	0.065	0.05	2.61	3.2	1.65	2.5	1R0
CGWN404012F1R5MT	1.5	20,30	0.085	0.065	2.1	2.7	1.46	2.2	1R5
CGWN404012F1R8MT	1.8	20,30	0.104	0.08	2.12	2.6	1.32	1.9	1R8
CGWN404012F2R2MT	2.2	20,30	0.104	0.08	1.76	2.3	1.32	1.9	2R2
CGWN404012F2R7MT	2.7	20,30	0.117	0.09	1.9	2.3	1.25	1.7	2R7
CGWN404012F3R3MT	3.3	20,30	0.143	0.11	1.72	2.1	1.12	1.6	3R3
CGWN404012F3R6MT	3.6	20,30	0.143	0.11	1.2	1.7	1.12	1.6	3R6
CGWN404012F4R3MT	4.3	20,30	0.182	0.14	1.58	1.7	1.0	1.5	4R3
CGWN404012F4R7MT	4.7	20,30	0.163	0.125	1.15	1.8	1.05	1.5	4R7
CGWN404012F5R1MT	5.1	20,30	0.201	0.155	1.55	1.6	0.95	1.5	5R1
CGWN404012F5R6MT	5.6	20,30	0.182	0.14	1.0	1.6	1.0	1.2	5R6
CGWN404012F6R8MT	6.8	20,30	0.257	0.198	0.85	1.4	0.84	1.2	6R8
CGWN404012F100MT	10	20,30	0.345	0.265	0.8	1.1	0.77	1.0	100
CGWN404012F120MT	12	20,30	0.377	0.29	0.66	1.0	0.7	0.95	120
CGWN404012F150MT	15	20,30	0.442	0.34	0.56	0.8	0.64	0.85	150
CGWN404012F180MT	18	20,30	0.611	0.47	0.55	0.75	0.55	0.8	180
CGWN404012F220MT	22	20,30	0.763	0.587	0.46	0.7	0.49	0.75	220
CGWN404012F270MT	27	20,30	0.936	0.72	0.5	0.7	0.45	0.6	270
CGWN404012F330MT	33	20,30	1.053	0.81	0.42	0.6	0.42	0.58	330
CGWN404012F360MT	36	20,30	1.17	0.9	0.4	0.5	0.4	0.56	360
CGWN404012F390MT	39	20,30	1.43	1.1	0.55	0.66	0.37	0.5	390
CGWN404012F470MT	47	20,30	1.43	1.1	0.35	0.5	0.37	0.5	470
CGWN404012F560MT	56	20,30	1.625	1.25	0.33	0.45	0.33	0.46	560
CGWN404012F680MT	68	20,30	2.535	1.95	0.38	0.45	0.27	0.45	680
CGWN404012F820MT	82	20,30	2.782	2.14	0.28	0.4	0.26	0.36	820
CGWN404012F101MT	100	20,30	2.873	2.21	0.25	0.3	0.25	0.35	101



• CGWN404018 Type:

Part NO.	L (μ H)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(\pm %)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404018FR47TT	0.47	30	0.018	0.014	4.3	5.2	4.0	4.5	R47
CGWN404018FR68TT	0.68	30	0.026	0.02	4.9	5.6	3.3	3.8	R68
CGWN404018F1R0MT	1.0	20,30	0.033	0.025	4.8	5.2	2.0	3.3	1R0
CGWN404018F1R5MT	1.5	20,30	0.039	0.03	3.35	4.0	1.8	3.2	1R5
CGWN404018F1R8MT	1.8	20,30	0.044	0.034	3.0	3.4	2.0	2.8	1R8
CGWN404018F2R2MT	2.2	20,30	0.059	0.045	2.7	3.2	1.65	2.6	2R2
CGWN404018F3R3MT	3.3	20,30	0.091	0.07	2.45	2.9	1.23	2.1	3R3
CGWN404018F4R7MT	4.7	20,30	0.117	0.09	1.7	2.2	1.2	1.8	4R7
CGWN404018F6R8MT	6.8	20,30	0.143	0.11	1.45	2.0	1.06	1.5	6R8
CGWN404018F100MT	10	20,30	0.234	0.18	1.3	1.6	0.84	1.2	100
CGWN404018F150MT	15	20,30	0.325	0.25	0.94	1.1	0.65	1.0	150
CGWN404018F220MT	22	20,30	0.468	0.36	0.8	0.88	0.59	0.85	220
CGWN404018F270MT	27	20,30	0.611	0.47	0.47	0.62	0.52	0.9	270
CGWN404018F330MT	33	20,30	0.689	0.53	0.56	0.75	0.49	0.72	330
CGWN404018F470MT	47	20,30	0.845	0.65	0.57	0.7	0.42	0.65	470
CGWN404018F680MT	68	20,30	1.3	1.0	0.47	0.51	0.32	0.52	680
CGWN404018F101MT	100	20,30	2.275	1.75	0.4	0.44	0.25	0.41	101
CGWN404018F151MT	150	20,30	3.25	2.5	0.31	0.34	0.22	0.36	151
CGWN404018F221MT	220	20,30	5.2	4.0	0.27	0.3	0.17	0.27	221



• CGWN404020 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404020FR24TT	0.24	30	0.014	0.011	10.5	12.5	4.5	5.2	R24
CGWN404020FR33TT	0.33	30	0.016	0.013	7.5	8.5	3.3	4.9	R33
CGWN404020FR50TT	0.5	30	0.029	0.022	7	7.5	3.3	3.7	R50
CGWN404020FR68TT	0.68	30	0.036	0.028	6.4	6.6	2.8	3.3	R68
CGWN404020F1R0MT	1.0	20,30	0.038	0.029	4.8	5.2	2.2	3.2	1R0
CGWN404020F1R2MT	1.2	20,30	0.038	0.029	5.1	5.6	2.15	3.2	1R2
CGWN404020F1R5MT	1.5	20,30	0.046	0.035	4.45	4.9	1.98	3	1R5
CGWN404020F2R2MT	2.2	20,30	0.052	0.04	3.4	3.7	1.85	2.8	2R2
CGWN404020F3R3MT	3.3	20,30	0.091	0.07	3.2	3.5	1.4	2.5	3R3
CGWN404020F3R6MT	3.6	20,30	0.072	0.055	2.8	3.0	1.54	2.5	3R6
CGWN404020F4R7MT	4.7	20,30	0.098	0.075	2.35	2.5	1.34	2.0	4R7
CGWN404020F5R1MT	5.1	20,30	0.111	0.085	2.3	2.5	1.27	1.8	5R1
CGWN404020F5R6MT	5.6	20,30	0.117	0.09	2.2	2.4	1.22	1.8	5R6
CGWN404020F6R2MT	6.2	20,30	0.15	0.115	2.15	2.3	1.08	1.6	6R2
CGWN404020F6R8MT	6.8	20,30	0.163	0.125	2.2	2.4	1.04	1.6	6R8
CGWN404020F7R5MT	7.5	20,30	0.15	0.1	1.85	2	1.08	1.5	7R5
CGWN404020F8R2MT	8.2	20,30	0.163	0.125	1.75	1.9	1.04	1.4	8R2
CGWN404020F100MT	10	20,30	0.215	0.165	1.6	1.7	0.9	1.2	100
CGWN404020F120MT	12	20,30	0.228	0.175	1.5	1.6	0.88	1.2	120
CGWN404020F150MT	15	20,30	0.299	0.23	1.35	1.5	0.77	1.1	150
CGWN404020F220MT	22	20,30	0.455	0.35	1.05	1.1	0.62	0.87	220
CGWN404020F270MT	27	20,30	0.709	0.545	1.02	1.1	0.5	0.7	270
CGWN404020F330MT	33	20,30	0.715	0.55	0.85	0.93	0.49	0.68	330
CGWN404020F390MT	39	20,30	0.845	0.65	0.82	0.9	0.46	0.64	390
CGWN404020F430MT	43	20,30	0.858	0.66	0.77	0.85	0.45	0.63	430
CGWN404020F470MT	47	20,30	0.923	0.71	0.74	0.81	0.44	0.61	470
CGWN404020F510MT	51	20,30	0.975	0.75	0.7	0.77	0.42	0.59	510
CGWN404020F560MT	56	20,30	1.04	0.8	0.66	0.72	0.41	0.57	560
CGWN404020F620MT	62	20,30	1.17	0.9	0.65	0.71	0.39	0.52	620
CGWN404020F680MT	68	20,30	1.38	1.06	0.61	0.67	0.36	0.5	680
CGWN404020F750MT	75	20,30	1.51	1.16	0.7	0.77	0.35	0.49	750
CGWN404020F820MT	82	20,30	1.52	1.17	0.5	0.55	0.34	0.47	820
CGWN404020F101MT	100	20,30	2.02	1.6	0.48	0.53	0.31	0.43	101



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CMSS Technology Co., Ltd

• CGWN404026 Type:

Part NO.	L (μ H)	Tolerance	DCR(Ω)		Isat(A)		I _{rms} (A)		Marking
	@100kHz,1V	(\pm %)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404026F1R0MT	1.0	20,30	0.031	0.024	3.3	3.8	3.0	3.3	1R0
CGWN404026F1R2MT	1.2	20,30	0.039	0.03	3.1	3.4	2.3	3.3	1R2
CGWN404026F1R5MT	1.5	20,30	0.039	0.03	2.4	2.9	2.3	3.1	1R5
CGWN404026F2R2MT	2.2	20,30	0.052	0.04	2.1	2.4	2	3.8	2R2
CGWN404026F3R3MT	3.3	20,30	0.065	0.05	1.8	2	1.7	2.5	3R3
CGWN404026F4R7MT	4.7	20,30	0.072	0.055	1.45	1.7	1.6	2.3	4R7
CGWN404026F6R8MT	6.8	20,30	0.085	0.065	1.3	1.5	1.5	2.0	6R8
CGWN404026F100MT	10	20,30	0.11	0.085	1.0	1.2	1.3	1.9	100
CGWN404026F150MT	15	20,30	0.143	0.11	0.9	1.0	1.1	1.5	150
CGWN404026F220MT	22	20,30	0.214	0.165	0.6	0.8	0.9	1.4	220
CGWN404026F330MT	33	20,30	0.351	0.27	0.55	0.65	0.7	1.0	330
CGWN404026F470MT	47	20,30	0.39	0.3	0.4	0.55	0.65	0.9	470



• CGWN404030 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN404030FR68TT	0.68	30	0.013	0.01	6.8	8.0	4.6	5.1	R68
CGWN404030F1R0MT	1.0	20,30	0.018	0.014	5.26	5.7	4.15	4.7	1R0
CGWN404030F1R2MT	1.2	20,30	0.02	0.015	5.8	6.3	3.8	4.2	1R2
CGWN404030F1R5MT	1.5	20,30	0.026	0.02	4.84	5.3	3.34	3.6	1R5
CGWN404030F1R8MT	1.8	20,30	0.033	0.025	5.4	5.8	3.2	3.3	1R8
CGWN404030F2R2MT	2.2	20,30	0.039	0.03	4.9	5.8	2.95	3.2	2R2
CGWN404030F3R3MT	3.3	20,30	0.052	0.04	3.3	3.6	2.4	2.6	3R3
CGWN404030F3R9MT	3.9	20,30	0.074	0.057	3.0	3.3	2.1	2.3	3R9
CGWN404030F4R3MT	4.3	20,30	0.072	0.055	2.95	3.2	2.1	2.3	4R3
CGWN404030F4R7MT	4.7	20,30	0.078	0.06	2.9	3.2	2.0	2.3	4R7
CGWN404030F5R6MT	5.6	20,30	0.085	0.065	2.6	2.8	1.95	2.1	5R6
CGWN404030F6R8MT	6.8	20,30	0.117	0.09	2.75	3.0	1.6	1.7	6R8
CGWN404030F7R5MT	7.5	20,30	0.11	0.085	2.2	2.4	1.65	1.8	7R5
CGWN404030F8R2MT	8.2	20,30	0.117	0.09	2.1	2.3	1.6	1.7	8R2
CGWN404030F100MT	10	20,30	0.13	0.1	1.95	2.4	1.5	1.6	100
CGWN404030F120MT	12	20,30	0.175	0.1	1.7	1.8	1.3	1.4	120
CGWN404030F150MT	15	20,30	0.247	0.19	1.65	1.8	1.11	1.2	150
CGWN404030F180MT	18	20,30	0.26	0.2	1.4	1.5	1.1	1.2	180
CGWN404030F220MT	22	20,31	0.292	0.225	1.3	1.4	1.0	1.2	220
CGWN404030F270MT	27	20,32	0.338	0.26	1.15	1.35	0.9	1.05	270
CGWN404030F330MT	33	20,33	0.429	0.33	1.1	1.2	0.84	0.92	330
CGWN404030F360MT	36	20,34	0.436	0.335	1.05	1.1	0.83	0.91	360
CGWN404030F390MT	39	20,35	0.566	0.435	1.03	1.1	0.73	0.8	390
CGWN404030F470MT	47	20,36	0.579	0.445	0.95	1.0	0.72	0.8	470
CGWN404030F510MT	51	20,37	0.611	0.47	0.9	1.13	0.7	0.8	510
CGWN404030F560MT	56	20,38	0.722	0.555	0.85	0.94	0.65	0.71	560
CGWN404030F620MT	62	20,39	0.761	0.585	0.8	0.99	0.63	0.7	620
CGWN404030F680MT	68	20,40	1.128	0.868	0.72	0.8	0.52	0.57	680
CGWN404030F750MT	75	20,41	1.326	1.02	0.7	0.88	0.48	0.53	750
CGWN404030F820MT	82	20,42	1.378	1.06	0.66	0.72	0.47	0.52	820
CGWN404030F910MT	91	20,43	1.43	1.1	0.65	0.71	0.46	0.5	910
CGWN404030F101MT	100	20,44	1.495	1.15	0.6	0.73	0.45	0.49	101
CGWN404030F121MT	120	20,30	1.755	1.4	0.55	0.6	0.42	0.46	121
CGWN404030F151MT	150	20,31	2.34	1.8	0.5	0.55	0.3	0.35	151
CGWN404030F221MT	220	20,32	3.25	2.5	0.4	0.5	0.35	0.4	221
CGWN404030F331MT	330	20,33	5.2	4.0	0.3	0.4	0.25	0.26	331
CGWN404030F471MT	470	20,34	9.36	7.2	0.3	0.35	0.2	0.23	471
CGWN404030F501MT	500	20,44	9.027	6.944	0.28	0.3	0.15	0.2	501
CGWN404030F681MT	680	20,30	9.854	7.6	0.19	0.2	0.14	0.18	681



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• CGWN505012 Type:

Part NO.	L (μ H)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(\pm %)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN505012F1R0MT	1.0	30.00	0.07	0.06	4.40	4.70	2.00	2.40	1R0
CGWN505012F1R5MT	1.5	30.00	0.09	0.07	3.70	3.80	1.90	2.20	1R5
CGWN505012F2R2MT	2.2	30.00	0.11	0.09	3.10	3.20	1.70	2.00	2R2
CGWN505012F3R3MT	3.3	30.00	0.15	0.13	2.40	2.60	1.40	1.70	3R3
CGWN505012F4R7MT	4.7	30.00	0.20	0.16	2.20	2.30	1.30	1.50	4R7
CGWN505012F6R8MT	6.8	20,30	0.29	0.25	1.70	1.90	1.00	1.20	6R8
CGWN505012F100MT	10	20,30	0.41	0.34	1.40	1.50	0.85	1.00	100
CGWN505012F150MT	15	20,30	0.52	0.44	1.20	1.30	0.80	0.92	150
CGWN505012F220MT	22	20,30	0.86	0.78	0.88	0.98	0.60	0.68	220



• CGWN505020 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN505020FR22TT	0.22	30	0.011	0.009	9	12	5.3	6	R22
CGWN505020FR24TT	0.24	30	0.011	0.009	8	10	5.3	6	R24
CGWN505020FR47TT	0.47	30	0.017	0.013	6.15	6.7	4.6	5	R47
CGWN505020FR56TT	0.56	30	0.022	0.017	8.5	9.6	3.8	4.2	R56
CGWN505020FR68TT	0.68	30	0.022	0.017	5.5	6	4	4.4	R68
CGWN505020FR75TT	0.75	30	0.022	0.017	5.5	6	4	4.4	R75
CGWN505020F1R0MT	1.0	20,30	0.026	0.02	4.1	5	3.8	4.1	1R0
CGWN505020F1R2MT	1.2	20,30	0.029	0.022	4.5	4.9	3.55	3.9	1R2
CGWN505020F1R5MT	1.5	20,30	0.034	0.026	4.1	4.5	3.2	3.5	1R5
CGWN505020F2R2MT	2.2	20,30	0.042	0.032	3.2	4	2.9	3.1	2R2
CGWN505020F2R7MT	2.7	20,30	0.049	0.038	2.9	3.5	2.7	2.9	2R7
CGWN505020F3R0MT	3.0	20,30	0.049	0.038	2.55	2.8	2.7	2.9	3R0
CGWN505020F3R3MT	3.3	20,30	0.056	0.043	2.55	3	2.5	2.7	3R3
CGWN505020F3R6MT	3.6	20,30	0.056	0.043	2.8	3	2.5	2.7	3R6
CGWN505020F3R9MT	3.9	20,30	0.056	0.043	2.3	2.8	2.5	2.7	3R9
CGWN505020F4R3MT	4.3	20,30	0.074	0.057	2.5	3	2.2	2.4	4R3
CGWN505020F4R7MT	4.7	20,30	0.074	0.057	2.5	2.7	2.2	2.4	4R7
CGWN505020F5R1MT	5.1	20,30	0.083	0.064	2.25	2.6	2.05	2.2	5R1
CGWN505020F5R6MT	5.6	20,30	0.083	0.064	2.3	2.5	2.1	2.2	5R6
CGWN505020F6R8MT	6.8	20,30	0.108	0.083	2.05	2.2	1.8	1.9	6R8
CGWN505020F7R5MT	7.5	20,30	0.117	0.09	1.85	2	1.75	1.9	7R5
CGWN505020F8R2MT	8.2	20,30	0.127	0.098	1.85	2	1.65	1.8	8R2
CGWN505020F9R1MT	9.1	20,30	0.143	0.11	1.7	1.8	1.55	1.7	9R1
CGWN505020F100MT	10	20,30	0.143	0.11	1.7	1.8	1.55	1.7	100
CGWN505020F120MT	12	20,30	0.182	0.14	1.5	1.6	1.4	1.5	120
CGWN505020F150MT	15	20,30	0.215	0.165	1.35	1.4	1.25	1.3	150
CGWN505020F180MT	18	20,30	0.26	0.2	1.25	1.3	1.15	1.2	180
CGWN505020F220MT	22	20,30	0.294	0.226	1.15	1.2	1.1	1.2	220
CGWN505020F330MT	33	20,30	0.507	0.39	0.92	1	0.9	0.99	330
CGWN505020F470MT	47	20,30	0.68	0.523	0.77	0.84	0.77	0.84	470
CGWN505020F560MT	56	20,30	0.819	0.63	0.77	0.84	0.7	0.77	560
CGWN505020F680MT	68	20,30	0.962	0.74	0.65	0.7	0.64	0.7	680
CGWN505020F820MT	82	20,30	1.158	0.965	0.65	0.75	0.5	0.6	820
CGWN505020F101MT	100	20,30	1.43	1.1	0.53	0.58	0.53	0.58	101
CGWN505020F121MT	120	20,30	1.755	1.35	0.42	0.53	0.4	0.5	121
CGWN505020F201MT	200	20,30	2.6	2	0.3	0.33	0.4	0.45	201



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CMSS Technology Co., Ltd

• CGWN505040 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN505040FR22TT	0.22	30	0.008	0.006	18	20	6.5	7.5	R22
CGWN505040FR24TT	0.24	30	0.008	0.006	15.7	18	6.4	7.4	R24
CGWN505040FR47TT	0.47	30	0.009	0.007	10	11.5	6.6	7.6	R47
CGWN505040F1R0MT	1.0	20,30	0.016	0.012	7.35	8.0	4.9	5.0	1R0
CGWN505040F1R2MT	1.2	20,30	0.021	0.016	6.5	7.0	4.15	4.25	1R2
CGWN505040F1R5MT	1.5	20,30	0.02	0.015	6.3	6.8	4.3	4.85	1R5
CGWN505040F1R8MT	1.8	20,30	0.021	0.016	5.5	6.05	4.15	4.3	1R8
CGWN505040F2R2MT	2.2	20,30	0.025	0.019	4.9	5.5	3.8	4.2	2R2
CGWN505040F2R7MT	2.7	20,30	0.029	0.022	4.3	4.8	3.6	4.0	2R7
CGWN505040F3R0MT	3.0	20,30	0.029	0.022	4.15	4.6	3.6	4.0	3R0
CGWN505040F3R3MT	3.3	20,30	0.031	0.024	3.95	4.45	3.4	3.9	3R3
CGWN505040F3R6MT	3.6	20,30	0.034	0.026	3.8	4.4	3.3	3.7	3R6
CGWN505040F3R9MT	3.9	20,30	0.035	0.027	3.55	4.0	3.2	3.7	3R9
CGWN505040F4R7MT	4.7	20,30	0.039	0.03	3.5	3.8	3.0	3.3	4R7
CGWN505040F5R6MT	5.6	20,30	0.046	0.035	3.0	3.7	2.8	3.1	5R6
CGWN505040F6R8MT	6.8	20,30	0.056	0.043	2.9	3.4	2.5	2.8	6R8
CGWN505040F8R2MT	8.2	20,30	0.062	0.048	2.7	2.9	2.3	2.6	8R2
CGWN505040F100MT	10	20,30	0.083	0.064	2.35	2.7	2.1	2.35	100
CGWN505040F120MT	12	20,30	0.1	0.077	2.2	2.5	2.0	2.1	120
CGWN505040F150MT	15	20,30	0.112	0.086	2.0	2.2	2.0	2.05	150
CGWN505040F180MT	18	20,30	0.155	0.119	1.7	2.0	1.45	1.65	180
CGWN505040F220MT	22	20,30	0.168	0.129	1.6	1.8	1.5	1.6	220
CGWN505040F270MT	27	20,30	0.244	0.188	1.52	1.75	1.1	1.25	270
CGWN505040F330MT	33	20,30	0.244	0.188	1.3	1.45	1.2	1.35	330
CGWN505040F470MT	47	20,30	0.354	0.272	1.1	1.2	1.0	1.15	470
CGWN505040F510MT	51	20,30	0.494	0.38	1.0	1.2	1.0	1.1	510
CGWN505040F560MT	56	20,30	0.494	0.38	1.05	1.2	0.8	0.9	560
CGWN505040F680MT	68	20,30	0.52	0.4	0.9	1.0	0.8	0.9	680
CGWN505040F750MT	75	20,30	0.585	0.45	0.85	0.95	0.72	0.8	750
CGWN505040F101MT	100	20,30	0.728	0.56	0.75	0.85	0.7	0.78	101
CGWN505040F151MT	150	20,30	0.975	0.75	0.65	0.67	0.6	0.7	151
CGWN505040F221MT	220	20,30	1.82	1.4	0.48	0.55	0.4	0.5	221
CGWN505040F301MT	300	20,30	2.6	2.0	0.5	0.58	0.35	0.4	301
CGWN505040F331MT	330	20,30	2.73	2.1	0.42	0.47	0.4	0.5	331
CGWN505040F471MT	470	20,30	3.9	3.0	0.37	0.43	0.35	0.4	471
CGWN505040F561MT	560	20,30	4.92	3.78	0.31	0.36	0.31	0.35	561
CGWN505040F681MT	680	20,30	5.07	3.9	0.3	0.35	0.25	0.3	681
CGWN505040F102MT	1000	20,30	7.8	6.0	0.21	0.25	0.2	0.23	102
CGWN505040F332MT	3300	20,30	25.2	21	0.14	0.15	0.1	0.12	332
CGWN505040F392MT	3900	20,30	30.55	23.5	0.125	0.15	0.1	0.115	392
CGWN505040F472MT	4700	20,30	45.5	35	0.11	0.13	0.08	0.1	472
CGWN505040F502MT	5000	20,30	43.16	35.97	0.11	0.13	0.085	0.098	502
CGWN505040F562MT	5600	20,30	50.7	39	0.105	0.12	0.08	0.092	562



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• CGWN505040 Type:

Part NO.	L (μH)	Tolerance (±%)	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN505040F682MT	6800	20,30	55.9	43	0.09	0.11	0.075	0.086	682
CGWN505040F822MT	8200	20,30	55.9	43	0.07	0.085	0.075	0.086	822
CGWN505040F103MT	10000	20,30	58.5	45	0.065	0.075	0.075	0.086	103

• CGWN606020 Type:

Part NO.	L (μH)	Tolerance (±%)	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN606020FR68TT	0.68	30	0.022	0.017	6.55	7.8	3.8	4.8	R68
CGWN606020FR82TT	0.82	30	0.022	0.017	5.3	6.3	3.8	4.8	R82
CGWN606020F1R0MT	1.0	20,30	0.02	0.02	4.15	5.0	3.5	4.4	1R0
CGWN606020F1R2MT	1.2	20,30	0.029	0.022	5.9	7.0	3.2	4.0	1R2
CGWN606020F1R5MT	1.5	20,30	0.029	0.022	4.25	5.1	3.2	4.0	1R5
CGWN606020F1R8MT	1.8	20,30	0.036	0.028	4.85	5.8	2.75	3.5	1R8
CGWN606020F2R2MT	2.2	20,30	0.036	0.028	3.75	4.5	2.75	3.5	2R2
CGWN606020F2R7MT	2.7	20,30	0.046	0.035	3.9	4.6	2.6	3.3	2R7
CGWN606020F3R3MT	3.3	20,30	0.046	0.035	3.15	3.7	2.6	3.3	3R3
CGWN606020F3R9MT	3.9	20,30	0.064	0.049	3.25	3.9	2.1	2.6	3R9
CGWN606020F4R3MT	4.3	20,30	0.064	0.049	2.7	3.2	2.1	2.6	4R3
CGWN606020F4R7MT	4.7	20,30	0.075	0.058	3.0	3.6	2.0	2.5	4R7
CGWN606020F5R6MT	5.6	20,30	0.075	0.058	2.4	2.9	1.9	2.4	5R6
CGWN606020F6R2MT	6.2	20,30	0.103	0.079	2.3	2.7	1.8	2.3	6R2
CGWN606020F6R8MT	6.8	20,30	0.103	0.079	2.2	2.6	1.8	2.3	6R8
CGWN606020F8R2MT	8.2	20,30	0.137	0.105	2.1	2.5	1.4	1.8	8R2
CGWN606020F100MT	10	20,30	0.137	0.105	1.75	2.1	1.4	1.8	100
CGWN606020F120MT	12	20,30	0.156	0.12	1.45	1.7	1.3	1.6	120
CGWN606020F150MT	15	20,30	0.189	0.145	1.2	1.4	1.2	1.5	150
CGWN606020F180MT	18	20,30	0.234	0.18	1.2	1.4	1.1	1.4	180
CGWN606020F220MT	22	20,30	0.265	0.204	1.05	1.2	1.0	1.3	220
CGWN606020F330MT	33	20,30	0.39	0.3	0.95	1.1	0.84	1.05	330
CGWN606020F470MT	47	20,30	0.559	0.43	0.7	0.9	0.8	0.9	470
CGWN606020F331MT	330	20,30	3.419	2.63	0.27	0.33	0.33	0.39	331



• CGWN606028 Type:

Part NO.	L (μ H)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(\pm %)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN606028FR82TT	0.82	30	0.016	0.012	6.5	9.0	5.2	6	R82
CGWN606028F1R0MT	1.0	30	0.013	0.01	5.75	7.0	5.2	5.7	1R0
CGWN606028F1R5MT	1.5	20,30	0.017	0.013	6.0	6.6	4.58	5	1R5
CGWN606028F2R2MT	2.2	20,30	0.026	0.02	5.1	5.6	3.75	4.1	2R2
CGWN606028F3R3MT	3.3	20,30	0.033	0.025	4.15	4.5	3.48	3.8	3R3
CGWN606028F4R7MT	4.7	20,30	0.039	0.03	3.0	3.3	3.08	3.4	4R7
CGWN606028F5R1MT	5.1	20,30	0.056	0.043	3.2	3.5	2.6	2.8	5R1
CGWN606028F6R8MT	6.8	20,30	0.061	0.047	2.6	3.0	2.4	2.6	6R8
CGWN606028F8R2MT	8.2	20,30	0.072	0.055	2.3	2.5	2.25	2.5	8R2
CGWN606028F100MT	10	20,30	0.094	0.072	2.04	2.5	1.95	2.4	100
CGWN606028F120MT	12	20,30	0.104	0.08	1.8	2.0	1.85	2.0	120
CGWN606028F150MT	15	20,30	0.163	0.125	1.8	1.9	1.5	1.6	150
CGWN606028F180MT	18	20,30	0.156	0.12	1.52	1.8	1.45	1.6	180
CGWN606028F220MT	22	20,30	0.182	0.14	1.45	1.8	1.4	1.6	220
CGWN606028F270MT	27	20,30	0.202	0.155	1.5	1.6	1.32	1.4	270
CGWN606028F330MT	33	20,30	0.241	0.185	1.35	1.5	1.22	1.3	330
CGWN606028F360MT	36	20,30	0.28	0.215	1.25	1.4	1.13	1.2	360
CGWN606028F390MT	39	20,30	0.293	0.225	1.25	1.4	1.1	1.2	390
CGWN606028F470MT	47	20,30	0.41	0.315	1.15	1.3	1.1	1.1	470
CGWN606028F560MT	56	20,30	0.449	0.345	1.1	1.2	0.9	1.0	560
CGWN606028F680MT	68	20,30	0.468	0.36	0.8	0.95	0.9	0.95	680
CGWN606028F750MT	75	20,30	0.533	0.41	0.9	0.99	0.8	0.9	750
CGWN606028F820MT	82	20,30	0.65	0.5	0.8	0.9	0.7	0.77	820
CGWN606028F101MT	100	20,30	0.65	0.5	0.65	0.71	0.7	0.77	101
CGWN606028F401MT	400	20,30	2.808	2.16	0.3	0.33	0.4	0.45	401
CGWN606028F102MT	1000	20,30	7.54	5.8	0.18	0.22	0.23	0.26	102



• CGWN606045 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN606045FR47MT	0.47	20,30	0.008	0.006	15	16.5	6.5	6.6	R47
CGWN606045FR60MT	0.6	20,30	0.008	0.006	14	15	6.5	7.5	R56
CGWN606045FR7MT	0.7	20,30	0.008	0.006	11	12	5.7	6.5	R68
CGWN606045FR80MT	0.8	20,30	0.01	0.008	10.35	11	5.9	6.5	R82
CGWN606045F1R0MT	1.0	20,30	0.014	0.011	9.85	10	5.14	5.6	1R0
CGWN606045F1R5MT	1.5	20,30	0.016	0.012	8.8	9.7	4.95	5.4	1R5
CGWN606045F1R8MT	1.8	20,30	0.016	0.012	7.6	8.4	4.95	5.4	1R8
CGWN606045F2R2MT	2.2	20,30	0.018	0.014	6.75	7.4	4.6	5.0	2R2
CGWN606045F2R7MT	2.7	20,30	0.02	0.015	5.75	6.3	4.3	4.7	2R7
CGWN606045F3R3MT	3.3	20,30	0.027	0.021	5.9	6.2	3.7	4.0	3R3
CGWN606045F4R3MT	4.3	20,30	0.03	0.023	4.45	4.9	3.5	3.8	4R3
CGWN606045F4R7MT	4.7	20,30	0.034	0.026	4.97	5.5	3.3	3.6	4R7
CGWN606045F5R6MT	5.6	20,30	0.038	0.029	4.15	4.6	3.15	3.4	5R6
CGWN606045F6R8MT	6.8	20,30	0.04	0.031	3.9	4.3	3.0	3.3	6R8
CGWN606045F7R5MT	7.5	20,30	0.044	0.034	3.5	3.8	2.9	3.2	7R5
CGWN606045F8R2MT	8.2	20,30	0.056	0.043	3.9	4.3	2.6	2.8	8R2
CGWN606045F100MT	10	20,30	0.062	0.048	3.2	3.5	2.45	2.7	100
CGWN606045F120MT	12	20,30	0.075	0.058	2.8	3.0	2.2	2.4	120
CGWN606045F150MT	15	20,30	0.088	0.068	2.5	2.7	2.05	2.2	150
CGWN606045F180MT	18	20,30	0.105	0.081	2.2	2.4	1.85	2.0	180
CGWN606045F220MT	22	20,30	0.116	0.089	2.05	2.2	1.8	2.0	220
CGWN606045F270MT	27	20,30	0.133	0.102	1.9	2.1	1.65	1.8	270
CGWN606045F330MT	33	20,30	0.178	0.137	1.65	1.8	1.45	1.6	330
CGWN606045F360MT	36	20,30	0.225	0.173	1.62	1.8	1.4	1.5	360
CGWN606045F390MT	39	20,30	0.234	0.18	1.5	1.6	1.25	1.4	390
CGWN606045F430MT	43	20,30	0.26	0.2	1.63	1.8	1.2	1.3	430
CGWN606045F470MT	47	20,30	0.26	0.2	1.4	1.5	1.2	1.3	470
CGWN606045F560MT	56	20,30	0.287	0.221	1.3	1.4	1.1	1.2	560
CGWN606045F620MT	62	20,30	0.306	0.235	1.25	1.4	1.1	1.2	620
CGWN606045F1680MT	68	20,30	0.376	0.289	1.2	1.3	1.0	1.1	680
CGWN606045F750MT	75	20,30	0.397	0.305	1.15	1.2	0.95	1.0	750
CGWN606045F820MT	82	20,30	0.443	0.341	1.05	1.1	0.9	0.99	820
CGWN606045F910MT	91	20,30	0.467	0.359	1.0	1.1	0.85	0.94	910
CGWN606045F101MT	100	20,30	0.563	0.433	0.95	1.0	0.8	0.88	101
CGWN606045F120MT	120	20,30	0.629	0.484	0.85	0.94	0.77	0.85	121
CGWN606045F150MT	150	20,30	0.754	0.58	0.8	0.88	0.7	0.77	151
CGWN606045F220MT	220	20,30	1.084	0.834	0.7	0.77	0.59	0.65	221
CGWN606045F330MT	330	20,30	1.651	1.27	0.57	0.63	0.57	0.63	331
CGWN606045F470MT	470	20,30	2.34	1.8	0.5	0.56	0.42	0.48	471
CGWN606045F680MT	680	20,30	3.25	2.5	0.42	0.46	0.33	0.38	681
CGWN606045F102MT	1000	20,30	5.85	4.5	0.3	0.35	0.3	0.35	102



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• CGWN606045 Type:

Part NO.	L (μH)	Tolerance (±%)	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN606045F152MT	1500	20,30	8.1	6.75	0.24	0.29	0.21	0.24	152
CGWN606045F202MT	2000	10,20,30	11.64	9.7	0.21	0.25	0.175	0.202	202
CGWN606045F222MT	2200	10,20,30	12	10	0.205	0.24	0.169	0.195	222
CGWN606045F252MT	2500	10,20,30	12.68	10.57	0.2	0.23	0.167	0.193	252
CGWN606045F332MT	3300	10,20,30	15.3	13	0.17	0.2	0.15	0.17	332
CGWN606045F472MT	4700	10,20,30	22.5	18.75	0.15	0.17	0.12	0.14	472
CGWN606045F502MT	5000	10,20,30	24	20	0.135	0.165	0.115	0.13	502
CGWN606045F602MT	6000	10,20,30	36	30	0.125	0.15	0.097	0.113	602
CGWN606045F682MT	6800	10,20,30	37.4	31.2	0.12	0.14	0.095	0.11	682
CGWN606045F702MT	7000	10,20,30	39.6	33	0.12	0.145	0.09	0.105	702
CGWN606045F802MT	8000	10,20,30	42.6	35.5	0.115	0.135	0.085	0.1	802
CGWN606045F103MT	10000	10,20,30	48	40	0.1	0.12	0.08	0.09	103
CGWN606045F123MT	12000	10,20,30	68.4	57	0.095	0.11	0.065	0.075	123
CGWN606045F143MT	14000	10,20,30	76.2	63.5	0.09	0.1	0.063	0.073	143
CGWN606045F153MT	15000	10,20,30	77.4	64.5	0.08	0.09	0.06	0.07	153

• CGWN808040 Type:

Part NO.	L (μH)	Tolerance (±%)	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN808040FR82TT	0.82	20,30	0.01	0.008	13.8	16	6.3	6.9	R82
CGWN808040F1R0MT	1.0	20,30	0.01	0.008	9.85	14	6.3	6.9	1R0
CGWN808040F1R2MT	1.2	20,30	0.013	0.01	10	14	5.65	6.2	1R2
CGWN808040F1R5MT	1.5	20,30	0.013	0.01	8.15	11	5.65	6.2	1R5
CGWN808040F2R0MT	2.0	20,30	0.016	0.012	9.25	10	5.15	5.6	2R0
CGWN808040F2R2MT	2.2	20,30	0.016	0.012	7.1	8	5.15	5.6	2R2
CGWN808040F3R0MT	3.0	20,30	0.018	0.014	6.1	7.0	4.7	5.2	3R0
CGWN808040F3R3MT	3.3	20,30	0.022	0.017	6.5	7.0	4.4	4.8	3R3
CGWN808040F3R6MT	3.6	20,30	0.022	0.017	7.52	8.5	4.35	4.8	3R6
CGWN808040F3R9MT	3.9	20,30	0.022	0.017	5.75	6.5	4.35	4.8	3R9
CGWN808040F4R7MT	4.7	20,30	0.025	0.019	5.9	6.5	4.1	4.5	4R7
CGWN808040F5R1MT	5.1	20,30	0.025	0.019	4.7	5.4	4.05	4.4	5R1
CGWN808040F5R6MT	5.6	20,30	0.027	0.021	6.0	6.9	3.85	4.2	5R6
CGWN808040F6R2MT	6.2	20,30	0.027	0.021	4.45	5.1	3.9	4.2	6R2
CGWN808040F6R8MT	6.8	20,30	0.031	0.024	4.55	5.2	3.6	4.0	6R8
CGWN808040F8R2MT	8.2	20,30	0.034	0.026	4.2	4.8	3.45	3.8	8R2
CGWN808040F100MT	10	20,30	0.038	0.029	3.6	4.1	3.3	3.6	100
CGWN808040F120MT	12	20,30	0.053	0.041	3.5	4.0	2.8	3.0	120
CGWN808040F150MT	15	20,30	0.061	0.047	2.95	3.4	2.6	2.8	150
CGWN808040F180MT	18	20,30	0.069	0.053	2.7	3.1	2.4	2.6	180
CGWN808040F220MT	22	20,30	0.09	0.069	2.4	2.7	2.1	2.3	220
CGWN808040F270MT	27	20,30	0.101	0.078	2.15	2.5	2.0	2.2	270
CGWN808040F330MT	33	20,30	0.126	0.097	2.05	2.4	1.8	2.0	330



• CGWN808040 Type:

Part NO.	L (μH)	Tolerance	DCR(Ω)		Isat(A)		Irms(A)		Marking
	@100kHz,1V	(±%)	Max.	Typ.	Max.	Typ.	Max.	Typ.	
CGWN808040F360MT	36	20,30	0.133	0.102	2	2.3	1.75	1.9	360
CGWN808040F390MT	39	20,30	0.139	0.107	1.95	2.2	1.7	1.9	390
CGWN808040F430MT	43	20,30	0.147	0.113	1.9	2.2	1.65	1.8	430
CGWN808040F470MT	47	20,30	0.177	0.136	1.75	2.0	1.55	1.7	470
CGWN808040F510MT	51	20,30	0.185	0.142	1.7	1.9	1.5	1.6	510
CGWN808040F620MT	62	20,30	0.237	0.182	1.5	1.6	1.3	1.4	620
CGWN808040F680MT	68	20,30	0.255	0.196	1.45	1.6	1.3	1.4	680
CGWN808040F750MT	75	20,30	0.274	0.211	1.35	1.5	1.2	1.3	750
CGWN808040F820MT	82	20,30	0.293	0.225	1.3	1.4	1.15	1.2	820
CGWN808040F910MT	91	20,30	0.354	0.272	1.2	1.3	1.05	1.1	910
CGWN808040F101MT	100	20,30	0.377	0.29	1.15	1.3	1.0	1.1	101
CGWN808040F121MT	120	20,30	0.434	0.334	1.05	1.1	0.95	1.0	121
CGWN808040F151MT	150	20,30	0.533	0.41	1.1	1.2	0.85	0.94	151
CGWN808040F181MT	180	20,30	0.676	0.52	0.95	1.15	0.83	0.92	181
CGWN808040F221MT	220	20,30	0.779	0.599	0.85	0.94	0.8	0.88	221
CGWN808040F331MT	330	20,30	1.156	0.889	0.68	0.75	0.64	0.7	331
CGWN808040F471MT	470	20,30	1.625	1.26	0.6	0.7	0.5	0.6	471
CGWN808040F681MT	680	20,30	2.652	2.04	0.5	0.6	0.45	0.5	681
CGWN808040F102MT	1000	20,30	3.64	2.8	0.4	0.5	0.35	0.4	102
CGWN808040F152MT	1500	20,30	6.5	5.0	0.32	0.38	0.26	0.27	152

• Notes

NOTE: □-tolerance K=±10%/M=±20% / T=±30%

1. Operating temperature range - 5 5 °C ~ 1 2 5 °C (Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40°C temperature rise from 25°C ambient.



8. Reliability Test

Reliability Of Wire Wound Power Inductors

1-1. Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Chip coil shall not be damaged after tested as test method	Oscillation Frequency: 10Hz to 55 Hz to 10 Hz for 1 min Total Amplitude: 1.5mm Testing Time: A period of 2 hours in each of 3 mutually perpendicular directions (Total 6 hours)
1-1-2	Solderability	The wetting area of the electrode shall be at least 95% covered with new solder coating	Solder: Sn/Ag3.0/Cu0.5 per-Heating: 150°C±10°C/1min to 2min solder Temperature: 245°C±5°C Immersion Time: 4s±1s
1-1-3	Resistance to Soldering Heat	Appearance: No damage	Solder: Sn/Ag3.0/Cu0.5 per-Heating: 150°C±10°C/1min to 2min solder Temperature: 260°C±5°C Immersion Time: 10s±1s

1-2. Environmental Performance

No	Item	Specification	Test Method														
1-2-1	Heat Resistance	Appearance: No damage Inductance Change: within±10%	Temperature: 125°C±3°C Time: 500h Then measured after exposure in the room Condition for 24h±2h														
1-2-2	Cold Resistance		Temperature: -55°C±3°C Time: 500h Then measured after exposure in the room Condition for 24h±2h														
1-2-3	Humidity		Temperature: 40°C±2°C Humidity: 90%(RH) to 95%(RH) Time: 500h Then measures after exposure in the room Condition for 24h±2h														
1-2-4	Temperature Cycle		One cycle: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55±3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25±2</td> <td>3</td> </tr> <tr> <td>3</td> <td>125±3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25±2</td> <td>3</td> </tr> </tbody> </table>	Step	Temperature (°C)	Time (min)	1	-55±3	30	2	25±2	3	3	125±3	30	4	25±2
Step	Temperature (°C)	Time (min)															
1	-55±3	30															
2	25±2	3															
3	125±3	30															
4	25±2	3															
			Total: 100cycles Measured after exposure in the room condition for 24hrs														

9.Recommended Soldering Technologies

(1) Re-flowing Profile

Preheat condition: 150 ~200C/60~180sec.

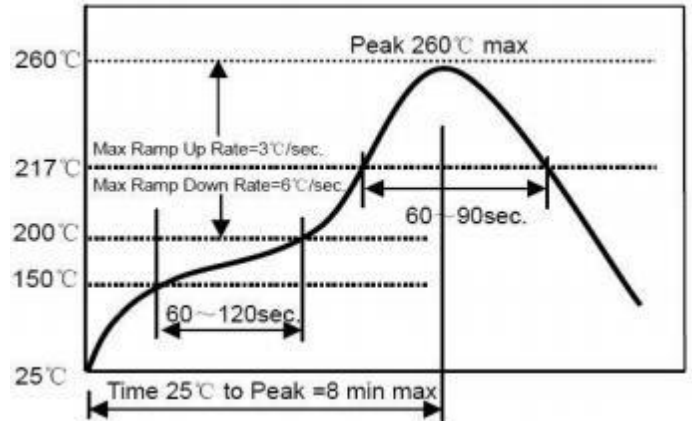
Allowed time above 217C: 80~ 120sec.

Max temp: 260C

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



(2) Iron Soldering Profile

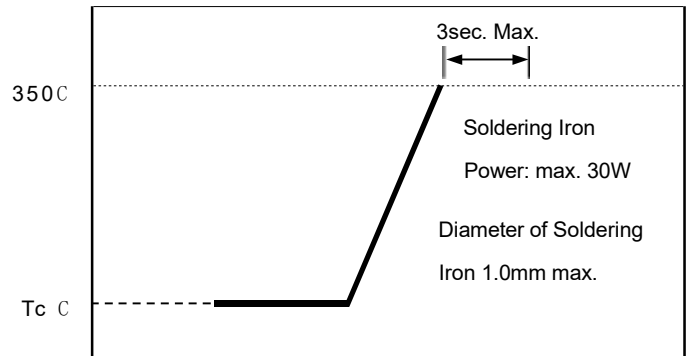
Iron soldering power: Max. 30W

Pre-heating: 150C/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

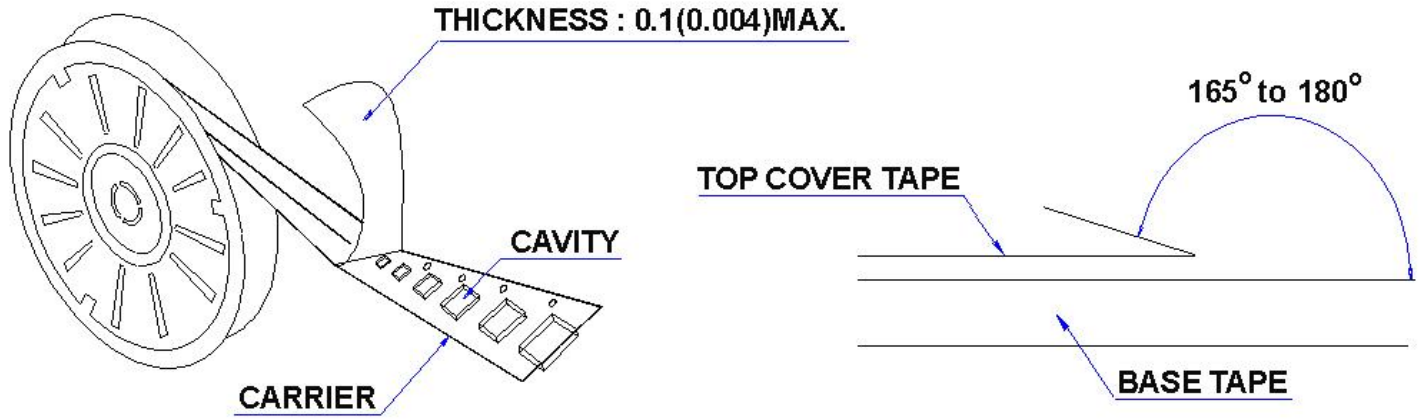
Max. 1 times for iron soldering



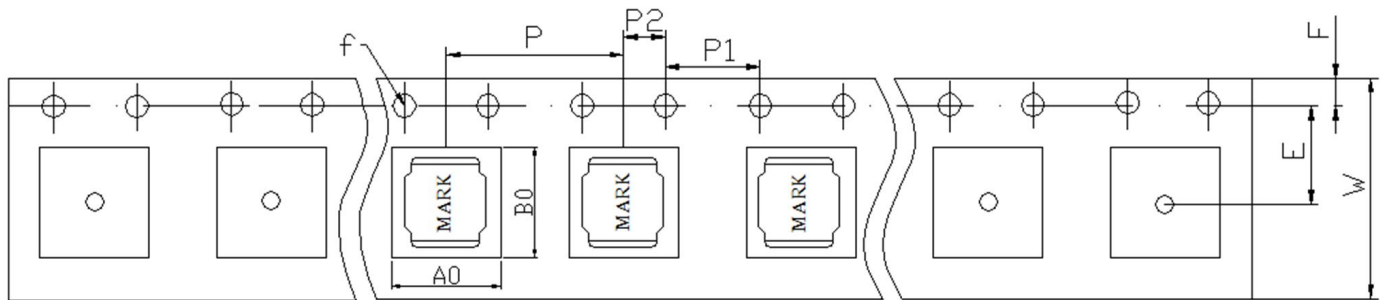
10. Packaging, Storage and Transportation:

- Reel and TMPIFing Dimensions (UNIT:mm)

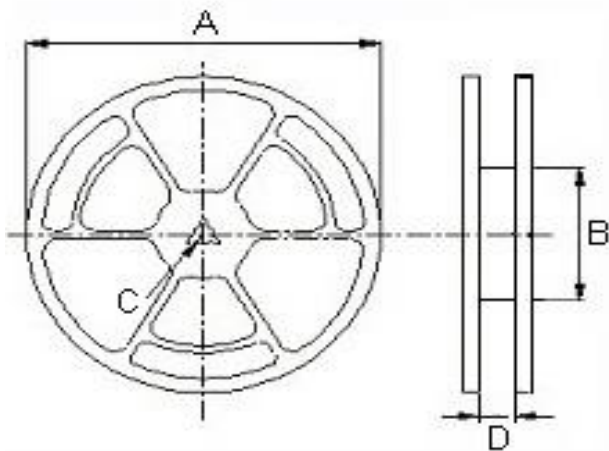
Packaging -Cover Tape The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



Tape Dimensions in mm:



Reel Dimensions: (UNIT:mm)

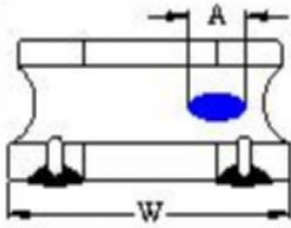




• TMPIFe Carrier Packaging:(Typ)

TYPE	Tape Dimensions(UNIT:mm)				Reel Dimensions(UNIT:mm)				Quantity
	W	P	P0	P2	A	B	C	D	PCS / REEL
201610	8	4	4	2	180	60	13	14.4	2000
252010	8	4	4	2	180	60	13	14.4	2000
252012	8	4	4	2	180	60	13	14.4	2000
303010	8	4	4	2	180	60	13	14.4	2000
303012	8	4	4	2	180	60	13	14.4	2000
303015	8	4	4	2	180	60	13	14.4	2000
404010	12	8	4	2	330	100	13	13.4	4500
404012	12	8	4	2	330	100	13	13.4	4500
404018	12	8	4	2	330	100	13	13.4	3000
404020	12	8	4	2	330	100	13	13.4	3000
404026	12	8	4	2	330	100	13	13.4	2000
404030	12	8	4	2	330	100	13	13.4	2000
505012	12	8	4	2	330	100	13	13.4	3000
505020	12	8	4	2	330	100	13	13.4	3000
505040	12	8	4	2	330	100	13	13.4	1500
606020	12	8	4	2	330	100	13	13.5	3000
606028	12	8	4	2	330	100	13	16	2000
606045	12	8	4	2	330	100	13	16	1500
808040	12	8	4	2	330	100	13	16	1000

11.Void Appearance tolerance Limit

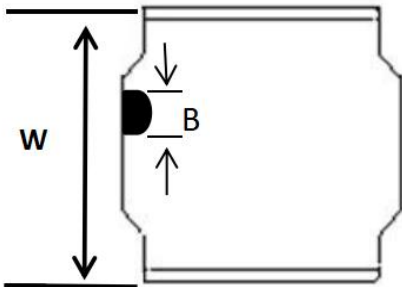


Exposed wire tolerance limit of coating resin part on product side.
The unilateral should be no more than two holes.

$$A \leq W/2 \text{ GOOD}$$

$$A > W/2 \text{ NG}$$

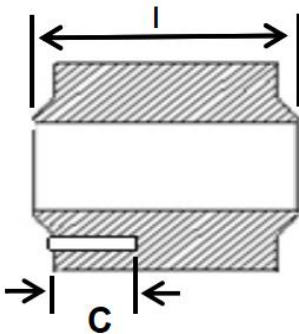
The appearance standard of the chipping size in top side.



$$B \leq W/8 \text{ GOOD}$$

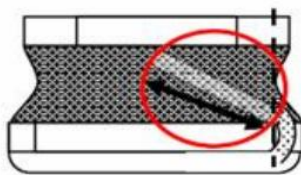
$$B > W/8 \text{ NG}$$

Electrode appearance criterion for exposed wire.



$$C \leq L/4 \text{ GOOD}$$

$$C > L/4 \text{ NG}$$



External appearance criterion for wxposed wire

Exposed end of the winding wire at the side should be acceptable.

Note:

1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
5. The moisture sensitivity level (MSL) of products is classified as level 1.



山西中磁尚善科技有限公司

CMSS Technology Co., Ltd

making