



GENERAL COMPONENTS INDUSTRY CORP.

旭誠工業股份有限公司

GSC SERIES

★ CONFIGURATION & DIMENSIONS :

Fig A (GSC0402,0403,0502,0503,0603,0604)

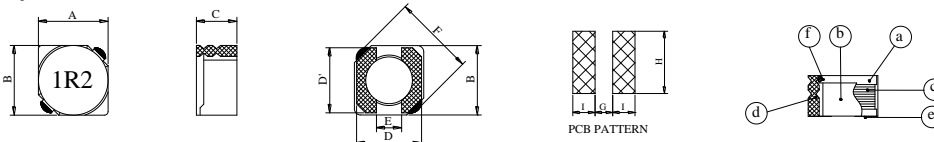


Fig B (GSC0301)

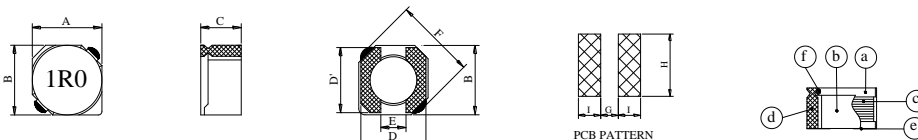
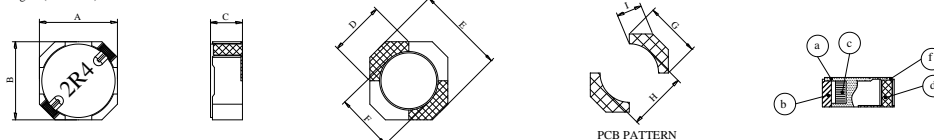


Fig C (GSC1005)



SERIES	A	B	C	D	D'	E	F	G	H	I	Fig
GSC0301	4.1	4.1	1.8 MAX.	3.7 REF.	3.75 REF.	1.20 REF.	5.2 MAX.	1.0 REF.	4.3 REF.	1.70 REF.	B
GSC0402	4.7±0.3	4.7±0.3	2.0 MAX.	4.5 REF.	4.50 REF.	1.5 REF.	6.9 MAX.	1.5 REF.	5.3 REF.	1.90 REF.	A
GSC0403	4.7±0.3	4.7±0.3	3.0 MAX.	4.5 REF.	4.50 REF.	1.5 REF.	6.9 MAX.	1.5 REF.	5.3 REF.	1.90 REF.	A
GSC0502	5.7±0.3	5.7±0.3	2.0 MAX.	5.5 REF.	5.50 REF.	2.0 REF.	8.2 MAX.	2.0 REF.	6.3 REF.	2.15 REF.	A
GSC0503	5.7±0.3	5.7±0.3	3.0 MAX.	5.5 REF.	5.50 REF.	2.0 REF.	8.2 MAX.	2.0 REF.	6.3 REF.	2.15 REF.	A
GSC0603	6.7±0.3	6.7±0.3	3.0 MAX.	6.5 REF.	6.50 REF.	2.0 REF.	9.5 MAX.	2.0 REF.	7.3 REF.	2.65 REF.	A
GSC0604	6.7±0.3	6.7±0.3	4.0 MAX.	6.5 REF.	6.50 REF.	2.0 REF.	9.5 MAX.	2.0 REF.	7.3 REF.	2.65 REF.	A
GSC1005	10.0±0.3	10.0±0.3	5.0 MAX.	6.8 REF.		11.5 REF.	7.7 MAX.	7.3 REF.	7.2 REF.	3.50 REF.	C

UNIT : m/m

★ MATERIALS :

- a · CORE : FERRITE DR CORE
- b · CORE : FERRITE RI CORE
- c · WIRE : ENAMELLED COPPER WIRE 130℃
- d · TERMINAL : TINNED COPPER PLATE
- e · ADHESIVE : EPOXY RESIN

★ GENERAL SPECIFICATION :

- a · TEMP. RISE : 40℃ MAX. (GC0301, 0402, 0403)
40℃ TYP. AT Irms. (GSC1005)
30℃ TYP. (GSC0502, 0503, 0603, 0604)
- b · RATED CURRENT : BASE ON TEMP. & $\Delta L/L_0 A=35\%$ MAX. (GSC0301,0402,0403)
BASE ON TEMP. & $\Delta L/L_0 A=35\%$ TYP. (GSC0502,0503,0603,0604)
BASE ON TEMP. & $\Delta L/L_0 A=35\%$ TYP. AT Isat (GSC1005)
- c · STORAGE TEMP. : -40℃ ----+125℃
- d · OPERATING TEMP. : -40℃ ----+85℃
- e · RESISTANCE TO SOLDER HEAT : 260℃.FOR 10 SECS.
- f · INDUCTANCE MEASURING FREQUENCY :
GSC0301 1R5~330 : 100KHZ , 0.1V
GSC0403 1R2~181 : 100KHZ , 0.5V
GSC0503 2R5~101 : 10KHZ , 0.5V
GSC0604 3R3~101 : 10KHZ , 0.5V
GSC0402 1R0~8R2 : 7.96MHZ , 0.5V ; 100~390 : 100KHZ , 0.5V
GSC0502 4R1~101 : 10KHZ , 0.5V
GSC0603 3R0~101 : 10KHZ , 0.5V
GSC1005 2R4~121 : 100KHZ , 1V



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ITEM	RDC (mΩ)								IDC (A)								Isat (A)	Irms (A)	SRF (MHZ) TYP.
	MAX.								MAX.										
	GSC0301	GSC0402	GSC0403	GSC0502	GSC0503	GSC0603	GSC0604	GSC1005	GSC0301	GSC0402	GSC0403	GSC0502	GSC0503	GSC0603	GSC0604	GSC1005			
1R0		45								1.72									
1R2			23.6								2.56								
1R5	52								1.55										
1R8			27.5								2.20								
2R2	72	75	31.3						1.20	1.32	2.04								
2R4								12.5								11.5	9.6	50.0	
2R5					18								2.60						
2R7		105	43.3							1.28	1.60								
3R0					24	24							2.40	3.00					
3R3	85	110	49.2				20		1.10	1.04	1.57				3.50				
3R6								15.0								9.4	8.2	40.0	
3R9		155	64.8			27				0.88	1.44			2.60					
4R1				57								1.95							
4R2					31								2.20						
4R7	105	162	72.0						0.90	0.84	1.32								
5R0						31	24	16.9						2.40	2.90	8.0	6.8	35.0	
5R3					38								1.90						
5R4				76								1.60							
5R6		170	100.9							0.80	1.17								
6R0						35								2.25					
6R2				96	45		27					1.40	1.80		2.50				
6R6								22.5								7.1	5.7	30.0	
6R8	170	180	108.9						0.73	0.76	1.12								
7R3						54								2.10					
7R4							31								2.30				
8R2		190	117.5		53					0.68	1.04		1.60						
8R5								28.8								6.3	4.8	25.0	
8R6						58								1.85					
8R7							34								2.20				
8R9				116								1.25							
100	210	200	128.3	124	65	65	38	40.0	0.55	0.61	1.00	1.20	1.30	1.70	2.00	5.5	4.3	22.0	
120		210	131.6	153	76	70	53	42.5		0.56	0.84	1.10	1.20	1.55	1.70	4.9	3.6	20.0	
150	295	240	149.0	196	103	84	57	46.0	0.45	0.50	0.76	0.97	1.10	1.40	1.60	4.5	3.4	18.0	
180		338	166.0	210	110	95	92	50.0		0.48	0.72	0.85	1.00	1.32	1.50	4.1	3.2	16.0	
220	430	397	235.0	290	122	128	96	56.0	0.40	0.41	0.70	0.80	0.90	1.20	1.30	4.0	2.8	15.0	
270		441	261.0	330	175	142	109	63.0		0.35	0.58	0.75	0.85	1.05	1.20	3.6	2.7	14.0	
330	675	694	331.3	385	189	165	124	90.0	0.32	0.32	0.56	0.65	0.75	0.97	1.10	3.1	2.1	12.0	
390		709	383.7	520	212	210	138	105.0		0.30	0.50	0.57	0.70	0.86	1.00	3.0	1.9	11.0	
470			587.0	595	250	238	155	120.0			0.48	0.54	0.62	0.80	0.95	2.6	1.8	10.1	
560			624.5	665	305	277	202	150.0			0.41	0.50	0.58	0.73	0.85	2.4	1.6	9.0	
680			699.0	840	355	304	234	175.0			0.35	0.43	0.52	0.65	0.75	2.1	1.5	8.0	
820			914.8	978	463	390	324	220.0			0.32	0.41	0.46	0.60	0.70	2.0	1.3	7.0	
101			1020.0	1200	520	535	358	275.0			0.29	0.36	0.42	0.54	0.65	1.8	1.1	6.0	
121			1270.0					312.5			0.27					1.6	1.0	5.0	
151			1350.0								0.24								
181			1540.0								0.22								

INDUCTANCE TOLERANCE:

GSC0301 1R5~330:Y:±30%

GSC0403 1R2~181:Y:±30%

GSC0503 2R5~101:Y:±30%

GSC0604 3R3~101:Y:±30%

GSC0402 1R0~390:Y:±30%

GSC0502 4R1~101:Y:±30%

GSSC0603 3R0~101:Y:±30%

GSC1005 2R4~121:Y:±30%



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旭 誠 工 業 股 份 有 限 公 司
