



GENERAL COMPONENTS INDUSTRY CORP.

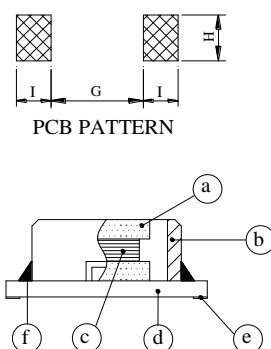
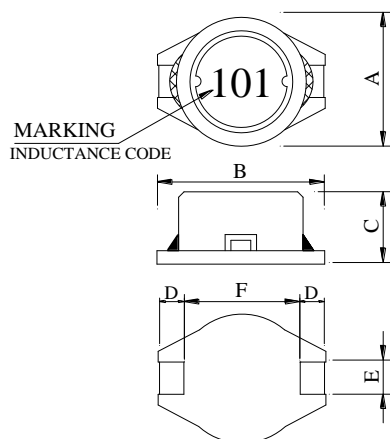
旭誠工業股份有限公司

GSDB SERIES I

★ CONFIGURATION & DIMENSIONS :



Fig : A (GSDB0805, 1003, 1005, 1507, 5022)



SERIES	A	B	C	D	E	F	G	H	I	Fig
GSDB0805	8.0 \pm 0.2	10.5 \pm 0.2	4.5 \pm 0.3	2.1 \pm 0.2	2.0 \pm 0.2	6.0 \pm 0.3	5.70 ^{REF.}	2.20 ^{REF.}	2.40 ^{REF.}	A
GSDB1003	10.1 \pm 0.2	12.7 \pm 0.2	2.7 \pm 0.3	2.4 \pm 0.2	2.2 \pm 0.2	7.6 \pm 0.3	7.30 ^{REF.}	2.80 ^{REF.}	3.00 ^{REF.}	A
GSDB1005	10.0 \pm 0.2	12.7 \pm 0.2	4.9 \pm 0.3	2.4 \pm 0.2	2.2 \pm 0.2	7.6 \pm 0.3	7.30 ^{REF.}	2.80 ^{REF.}	3.00 ^{REF.}	A
GSDB1507	15.0 \pm 0.3	18.4 \pm 0.3	7.0 \pm 0.5	2.4 \pm 0.2	2.2 \pm 0.2	13.3 \pm 0.3	12.70 ^{REF.}	2.80 ^{REF.}	3.00 ^{REF.}	A
GSDB5022	15.24 ^{MAX.}	18.54 ^{MAX.}	7.62 ^{MAX.}	2.54 \pm 0.2	2.54 \pm 0.2	12.7 \pm 0.3	12.45 ^{REF.}	2.79 ^{REF.}	2.92 ^{REF.}	A

UNIT : m/m

★ MATERIALS :

- a · CORE : FERRITE DR CORE
- b · CORE : FERRITE RI CORE
- c · WIRE : ENAMELLED COPPER WIRE 130°C
- d · BASE : LCP E4008
- e · TERMINAL : TINNED COPPER PLATE
- f · ADHESIVE : EPOXY RESIN

★ GENERAL SPECIFICATION :

- a · TEMP. RISE : 40°C MAX. (GSDB0805,1003,1005), 40°C TYP.(GSDB1507)
: 40°C TYP. AT I_{rms}. (GSDB5022)
- b · RATED CURRENT : BASE ON TEMP. RISE & $\Delta L/L_0 A = 10\% \text{MAX.}$
(GSDB0805,1003,1005,1507)
 $\Delta L/L_0 A = 10\% \text{TYP. AT } I_{\text{sat.}}$ (GSDB5022)
- c · STORAGE TEMP. : -40°C ---- +125°C
- d · OPERATING TEMP. : -40°C ---- +85°C
- e · RESISTANCE TO SOLDER HEAT : 260°C .10 SECS.
- a · INDUCTANCE MEASURING FREQUENCY :
100KHZ , 1V(GSDB0805,1003,1005,1507,5022)
100KHZ , 0.1V(GSDB1608)
- g · Q MEASURING FREQUENCY :
100KHZ , 1V(GSDB0805,1003,1005,1507,5022)



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旭誠工業股份有限公司

GDB SERIES I

ITEM	RDC (mΩ) MAX.					IDC(A) MAX.				Q REF.				SRF (MHZ) TYP.				Isat(A) MAX.	Irms(A) MAX.
	GSDB0805	GSDB1003	GSDB1005	GSDB1507	GSDB5022	GSDB0805	GSDB1003	GSDB1005	GSDB1507	GSDB0805	GSDB1003	GSDB1005	GSDB1507	GSDB0805	GSDB1003	GSDB1005	GSDB1507	GSDB5022	GSDB5022
1R0			21					5.00				50				130.0			
1R5			22					4.50				60				110.0			
2R2	40	45	27			2.50	3.50	3.10		60	30	70		75.0	90.0	90.0			
3R0		62	30				3.00	2.90			30	70			70.0	65.0			
3R3																			
3R9	55	70				2.10	2.80			60	30			50.0	60.0				
4R7		78	40				2.50	2.50			30	70			50.0	50.0			
5R6	65					1.95				60				40.0					
6R8		100	55				2.20	2.20			30	70			50.0	30.0			
8R2	80					1.75				60				32.0					
100	100	145	65	30	40	1.50	2.00	2.00	4.00	50	30	60	70	28.0	38.0	28.0	20.0	8.00	3.90
120	120	185	80			1.40	1.75	1.80		50	35	60		24.0	29.0	25.0			
150	140	200	85	35	48	1.30	1.50	1.70	3.60	50	35	60	55	22.0	30.0	20.0	17.0	7.00	3.40
180	160	270	90			1.20	1.40	1.60		50	35	60		19.0	25.0	19.0			
220	180	300	100	45	59	1.10	1.30	1.40	3.15	50	40	50	45	17.0	22.0	18.0	15.0	6.00	3.10
270	200	400	120			1.00	1.20	1.30		50	40	50		15.5	18.0	16.0			
330	240	450	160	60	75	0.92	1.10	1.20	2.80	60	40	70	55	13.5	17.0	14.0	10.0	5.00	2.80
390	260	560	180			0.84	0.95	1.05		60	40	70		12.0	17.0	12.0			
470	280	650	190	80	97	0.75	0.80	1.00	2.45	60	40	70	45	10.5	15.0	11.0	8.5	4.00	2.40
560	380	680	210			0.68	0.75	0.90		60	40	70		9.5	14.0	10.0			
680	440	800	340	115	138	0.60	0.70	0.82	2.00	70	40	85	50	9.0	12.0	9.0	6.5	3.00	2.00
820	550	1200	380			0.54	0.65	0.75		70	30	85		8.5	11.0	8.0			
101	600	1400	420	180	207	0.50	0.60	0.68	1.70	70	45	85	70	7.5	9.5	7.5	5.5	2.40	1.70
121	750	1520	460			0.45	0.55	0.60		70	50	90		7.0	8.5	7.0			
151	900	1800	520	220	293	0.40	0.50	0.55	1.35	70	50	90	60	6.5	8.0	6.3	5.0	2.10	1.30
181	1050	2200	700			0.35	0.45	0.50		70	50	100		4.8	7.0	5.5			
221	1180	2200	800	320	470	0.30	0.40	0.45	1.15	80	50	100	65	4.5	6.5	5.0	4.0	1.90	1.10
271	1400	3100	1100			0.27	0.35	0.40		90	50	100		4.2	5.5	4.5			
331	1800	3600	1200	500	780	0.24	0.30	0.35	0.90	90	45	110	80	3.8	5.2	4.0	3.0	1.10	0.86
391	2100	4600	1400			0.22	0.25	0.33		80	45	110		3.6	5.0	3.8			
471	2250	5100	1600	750	1080	0.20	0.20	0.30	0.75	80	50	70	90	3.5	4.5	3.0	2.5	1.10	0.73
561	3000		1800			0.18		0.28		100		70		3.0		2.7			
681	3400		2300	1100	1400	0.17		0.26	0.65	90		70	100	2.8		2.6	2.3	0.96	0.64
821	4000		2600			0.16		0.24		90		70		2.5		2.5			
102	5000		3200	1500	2010	0.15		0.22	0.55	90		70	90	2.2		2.0	1.9	0.80	0.53
122			3600					0.20				70				2.0			
152			5200					0.17				70				1.6			
182			5700					0.16				70				1.4			
222			6500					0.14				70				1.4			
272			8600					0.12				70				1.2			
332			10000					0.10				70				1.2			

INDUCTANCE TOLERANCE:

GSDB0805 2R2~150:M:±20% , 180~470:L:±15% , 560~102:K:±10% GSDB1003 2R2~221:M:±20% , 271~471:L:±15%
GSDB1005 1R0~150:M:±20% , 180~820:L:±15% , 101~332:±10% , GSDB1507 100~102:M:±20% , GSDB5022 100~102:M:±20%