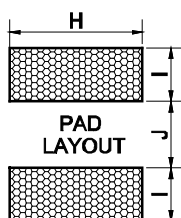
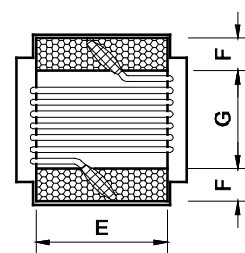
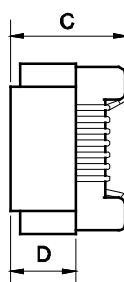
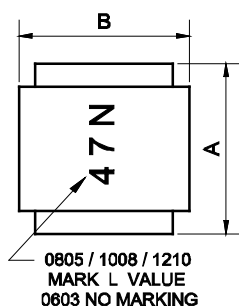


Shape and Size :(Dimensions are in mm)



ITEM	A max	B max	C max	D	E	F	G	H	I	J
SMDCHGR 0402S	1.19	0.64	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46
SMDCHGR 0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
SMDCHGR 0805	2.29	1.73	1.52	0.51	1.27	0.51	1.02	1.78	1.02	0.76
SMDCHGR 1008	2.92	2.79	2.10	0.51	2.03	0.51	1.52	2.54	1.02	1.27
SMDCHGR 1210	3.56	2.92	2.23	0.51	2.10	0.51	2.03	2.54	1.02	1.78

Features :

- Miniature SMD chip inductors have been designed especially for the need of today's high frequency applications
- Their ceramic construction delivers the highest possible SRF's and Q values.
- The non-magnetic coilform also assures the utmost in thermal stability, predictability, and batch consistency.
- Their ferrite core inductors have lower DCR and higher current ratings. The inductance values from 1.2 to 10uH.

Ordering Information :

S M D C H G R 1 0 0 8 4 7 N G

(1) (2) (3) (4) (5) (6) (7)

- (1)Type : **Surface Mount Devices** .
- (2)Material : **CH** : Ceramic,
- (3)Terminal **G** : with Gold wraparound .
- (4)Packaging **R** : Tape and Reel .
- (5)Type 1008 : **L**=0.1 Inch **W**=0.08 Inch
- (6)Inductance : **47N** for 47 nH .
- (7)Inductance tolerance :
G:±2% ; **J** : ±5% ; **K** : ±10% ; **M** : ±20% .

Inductance and rated current ranges :

• SMDCHGR0402S	1.0~68nH	1.36~0.15A
• SMDCHGR0603	1.6~270nH	0.7~0.17A
• SMDCHGR0805	2.2~820nH	0.6~0.18A
• SMDCHGR1008	10~10000nH	1.0~0.16A
• SMDCHGR1210	10~4700nH	1.0~0.23A

Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max. $\Delta T=15^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Operating temp. : -40°C to 125°C

Test equipments and test setup :

- L & Q & SRF : Agilent 4291B RF Impedance Analyzer with Agilent 16193A test fixture.
- DCR : Milli-ohm meter .
- Electrical specifications at 25°C .

Applications :

- Pagers, Cordless phone .
- High Freq. Communication Products .
- GPS(Global Position System) .

Part No.	Inductance	Tole.	Quality Factor Min.	Test Freq. (MHz)		SRF (MHz) Min.	DCR (OHM) Max.	Idc (mA) Max.
				L	Q			
SMDCHGR0805 -2N2 ☐	2.2nH	M,K	15	250	1500	6000	0.08	600
SMDCHGR0805 -3N3 ☐	3.3nH	M,K	35	250	1500	6000	0.08	600
SMDCHGR0805 -6N8 ☐	6.8nH	M,K,J	50	250	1000	5500	0.11	600
SMDCHGR0805 -8N2 ☐	8.2nH	M,K	35	250	500	4700	0.12	600
SMDCHGR0805 -10N ☐	10nH	M,K,J	50	250	500	4300	0.14	600
SMDCHGR0805 -12N ☐	12nH	K,J,G	50	250	500	4000	0.15	600
SMDCHGR0805 -15N ☐	15nH	M,K,J	50	250	500	3400	0.17	600
SMDCHGR0805 -18N ☐	18nH	K,J,G	50	250	500	3300	0.20	600
SMDCHGR0805 -22N ☐	22nH	K,J,G	55	250	500	2600	0.22	500
SMDCHGR0805 -27N ☐	27nH	K,J,G	55	250	500	2500	0.25	500
SMDCHGR0805 -33N ☐	33nH	K,J,G	60	250	500	2050	0.27	500
SMDCHGR0805 -39N ☐	39nH	K,J,G	60	250	500	2000	0.29	500
SMDCHGR0805 -47N ☐	47nH	K,J,G	60	200	500	1650	0.31	500
SMDCHGR0805 -56N ☐	56nH	K,J,G	60	200	500	1550	0.34	500
SMDCHGR0805 -68N ☐	68nH	K,J,G	60	200	500	1450	0.38	500
SMDCHGR0805 -82N ☐	82nH	K,J,G	60	150	500	1300	0.42	400
SMDCHGR0805 -R10 ☐	0.1uH	K,J,G	60	150	500	1200	0.46	400
SMDCHGR0805 -R12 ☐	0.12uH	K,J,G	50	150	250	1100	0.51	400
SMDCHGR0805 -R15 ☐	0.15uH	K,J,G	50	100	250	920	0.56	400
SMDCHGR0805 -R18 ☐	0.18uH	M,K,J	50	100	250	870	0.64	400
SMDCHGR0805 -R22 ☐	0.22uH	M,K,J	50	100	250	850	0.70	400
SMDCHGR0805 -R27 ☐	0.27uH	M,K,J	48	100	250	650	1.10	350
SMDCHGR0805 -R33 ☐	0.33uH	M,K,J	48	100	250	600	1.40	310
SMDCHGR0805 -R39 ☐	0.39uH	M,K,J	48	100	250	560	1.50	290
SMDCHGR0805 -R47 ☐	0.47uH	M,K,J	33	50	100	375	1.76	250
SMDCHGR0805 -R56 ☐	0.56uH	M,K,J	23	25	50	340	1.90	230
SMDCHGR0805 -R68 ☐	0.68uH	M,K,J	23	25	50	188	2.20	190
SMDCHGR0805 -R82 ☐	0.82uH	M,K,J	23	25	50	215	2.35	180