



CWW0402 SERIES CERAMIC SM CHIP INDUCTOR



COTS+

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Temperature Rise @ 90°C:** <35°C
- **Dielectric Withstanding Voltage:** 200 V_{RMS}
- **Different electrical values available upon request**

FEATURES

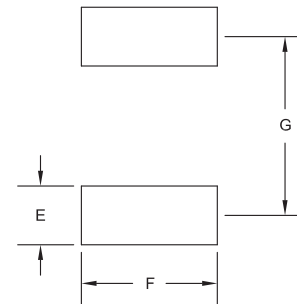
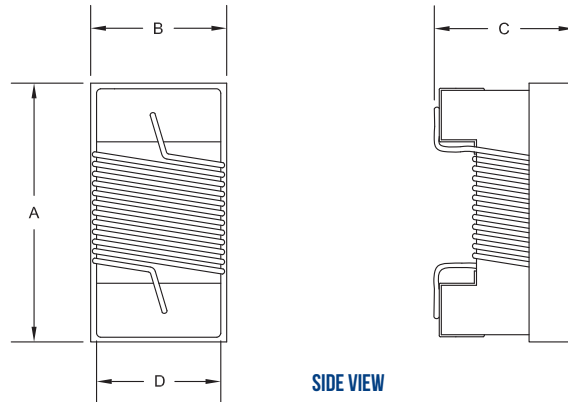
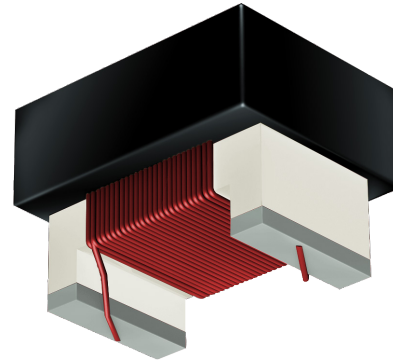
- **High Q**
- **Terminations:** Gold
- Welded Connections
- Moisture, Shock and Immersion Resistant
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Tape and Reel Packaging Available**
- **Max Weight:** 0.05 grams

APPLICATIONS

- Filter inductors
- Impedance matching
- Ripple suppressors
- Resonance circuits
- AC Chokes
- Phased array

Inductance Range (nH)	DCR (Ohms)	Current Rating (mA)
0.90 to 220	0.040 to 2.00	37.5 to 1020

ALL DIMENSIONS: INCHES



Package	A max	B max	C max	D ref	E max	F ref.	G ref.
0402	0.0472	0.0256	0.0276	0.0205	0.014	0.026	0.032





Vanguard P/N	Inductance Nominal (nH)	Q min	Test Freq (MHz)	SRF min (MHz)	DCR Nominal (Ohms)	DC Current max (mA)
CWW0402-0R90X*	0.90	11	250	6000	0.040	1020
CWW0402-1R0X*	1.0	11	250	6000	0.070	525
CWW0402-1R2X*	1.2	11	250	6000	0.110	525
CWW0402-1R8X*	1.8	16	250	6000	0.070	780
CWW0402-1R9X*	1.9	16	250	6000	0.070	780
CWW0402-2R0X*	2.0	16	250	6000	0.070	780
CWW0402-2R2X*	2.2	14	250	6000	0.110	480
CWW0402-2R4X*	2.4	16	250	6000	0.120	480
CWW0402-2R5X*	2.5	16	250	6000	0.120	480
CWW0402-2R7X*	2.7	16	250	6000	0.135	480
CWW0402-2R9X*	2.9	16	250	6000	0.125	525
CWW0402-3R3X*	3.3	20	250	6000	0.100	525
CWW0402-3R6X*	3.6	19	250	6000	0.100	525
CWW0402-3R9X*	3.9	19	250	4800	0.100	525
CWW0402-4R3X*	4.3	18	250	6000	0.091	525
CWW0402-4R7X*	4.7	15	250	4775	0.130	480
CWW0402-5R1X*	5.1	23	250	4800	0.105	600
CWW0402-5R6X*	5.6	22	250	4800	0.110	570
CWW0402-6R2X*	6.2	20	250	4800	0.110	570
CWW0402-6R8X*	6.8	21	250	4800	0.100	510
CWW0402-7R5X*	7.5	24	250	4800	0.100	510
CWW0402-8R2X*	8.2	24	250	4400	0.100	510
CWW0402-8R7X*	8.7	22	250	4160	0.160	509
CWW0402-9R0X*	9.0	22	250	4160	0.160	509
CWW0402-9R1X*	9.1	22	250	4000	0.200	360
CWW0402-9R5X*	9.5	22	250	4000	0.200	360
CWW0402-10RX*	10	21	250	3900	0.200	360
CWW0402-11RX*	11	24	250	3680	0.170	480
CWW0402-12RX*	12	24	250	3600	0.170	480
CWW0402-13RX*	13	24	250	3600	0.170	480
CWW0402-15RX*	15	24	250	3280	0.170	420
CWW0402-16RX*	16	24	250	3100	0.220	420
CWW0402-18RX*	18	25	250	3100	0.230	315
CWW0402-19RX*	19	24	250	3040	0.240	360
CWW0402-20RX*	20	25	250	3000	0.250	315
CWW0402-22RX*	22	25	250	2800	0.300	300
CWW0402-23RX*	23	22	250	2720	0.300	300
CWW0402-24RX*	24	22	250	2480	0.300	300
CWW0402-27RX*	27	24	250	2480	0.300	300

*See VE part number structure key

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types

CWW0402 SERIES



DATA TABLE

Vanguard P/N	Inductance Nominal (nH)	Q min	Test Freq (MHz)	SRF min (MHz)	DCR Nominal (Ohms)	DC Current max (mA)
CWW0402-30RX*	30	24	250	2350	0.330	300
CWW0402-33RX*	33	24	250	2350	0.300	240
CWW0402-36RX*	36	24	250	2320	0.440	240
CWW0402-39RX*	39	25	250	2100	0.550	150
CWW0402-40RX*	40	25	250	2100	0.830	112
CWW0402-43RX*	43	25	250	2100	0.750	112
CWW0402-47RX*	47	25	250	2100	0.830	112
CWW0402-51RX*	51	25	250	1760	0.970	75
CWW0402-56RX*	56	25	250	1760	0.970	75
CWW0402-68RX*	68	25	250	1620	1.20	75
CWW0402-72RX*	72	15	100	1070	1.20	60
CWW0402-100RX*	100	15	100	1070	1.20	60
CWW0402-120RX*	120	12	100	580	1.30	56.25
CWW0402-130RX*	130	10	100	450	1.30	56.25
CWW0402-150RX*	150	13	100	400	1.30	45
CWW0402-180RX*	180	10	50	380	1.50	48.75
CWW0402-200RX*	200	10	50	400	1.50	37.5
CWW0402-220RX*	220	10	50	190	2.00	37.5

*See VE part number structure key

VE PART NUMBER STRUCTURE KEY

EXAMPLE: CWW0402-1R0KG

INDUCTANCE (nH)

1.8
1R8

*R = Decimal point

TOLERANCE

M	20%
K	10%
J	5%
G	2%

TERMINATION

G	Gold
S	SnPb

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