



SWW0402 SERIES CERAMIC SM CHIP INDUCTOR



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

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

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**
- **Outgassing compliant per ASTM E595**
(TML <1%, CVCM <0.1%)

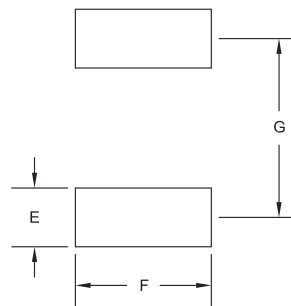
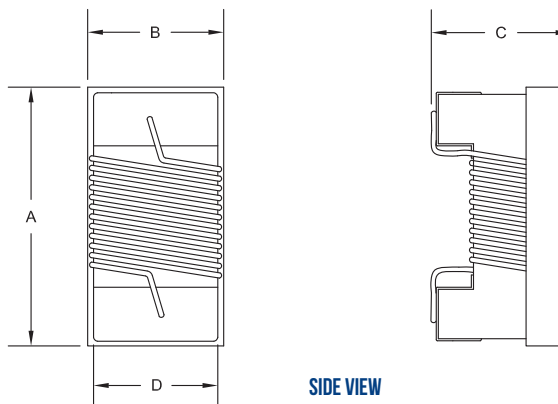
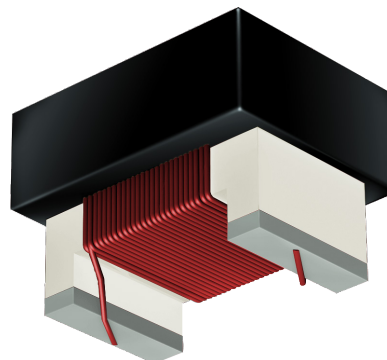
FEATURES

- **High Q**
- **Terminations:** Gold
- Welded Connections
- Moisture, Shock and Immersion Resistant
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Standard packaging is Waffle Pack**
Tape and Reel available upon request
- **Max Weight:** 0.05 grams

APPLICATIONS

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

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

SWW0402 SERIES





DATA TABLE

Vanguard P/N	Inductance Nominal (nH)	Q min	Test Freq (MHz)	SRF min (MHz)	DCR Nominal (Ohms)	DC Current max (mA)
SWW0402-0R90X*-*	0.90	11	250	6000	0.040	1020
SWW0402-1R0X*-*	1.0	11	250	6000	0.070	525
SWW0402-1R2X*-*	1.2	11	250	6000	0.110	525
SWW0402-1R8X*-*	1.8	16	250	6000	0.070	780
SWW0402-1R9X*-*	1.9	16	250	6000	0.070	780
SWW0402-2R0X*-*	2.0	16	250	6000	0.070	780
SWW0402-2R2X*-*	2.2	14	250	6000	0.110	480
SWW0402-2R4X*-*	2.4	16	250	6000	0.120	480
SWW0402-2R5X*-*	2.5	16	250	6000	0.120	480
SWW0402-2R7X*-*	2.7	16	250	6000	0.135	480
SWW0402-2R9X*-*	2.9	16	250	6000	0.125	525
SWW0402-3R3X*-*	3.3	20	250	6000	0.100	525
SWW0402-3R6X*-*	3.6	19	250	6000	0.100	525
SWW0402-3R9X*-*	3.9	19	250	4800	0.100	525
SWW0402-4R3X*-*	4.3	18	250	6000	0.091	525
SWW0402-4R7X*-*	4.7	15	250	4775	0.130	480
SWW0402-5R1X*-*	5.1	23	250	4800	0.105	600
SWW0402-5R6X*-*	5.6	22	250	4800	0.110	570
SWW0402-6R2X*-*	6.2	20	250	4800	0.110	570
SWW0402-6R8X*-*	6.8	21	250	4800	0.100	510
SWW0402-7R5X*-*	7.5	24	250	4800	0.100	510
SWW0402-8R2X*-*	8.2	24	250	4400	0.100	510
SWW0402-8R7X*-*	8.7	22	250	4160	0.160	509
SWW0402-9R0X*-*	9.0	22	250	4160	0.160	509
SWW0402-9R1X*-*	9.1	22	250	4000	0.200	360
SWW0402-9R5X*-*	9.5	22	250	4000	0.200	360
SWW0402-10RX*-*	10	21	250	3900	0.200	360
SWW0402-11RX*-*	11	24	250	3680	0.170	480
SWW0402-12RX*-*	12	24	250	3600	0.170	480
SWW0402-13RX*-*	13	24	250	3600	0.170	480
SWW0402-15RX*-*	15	24	250	3280	0.170	420
SWW0402-16RX*-*	16	24	250	3100	0.220	420
SWW0402-18RX*-*	18	25	250	3100	0.230	315
SWW0402-19RX*-*	19	24	250	3040	0.240	360
SWW0402-20RX*-*	20	25	250	3000	0.250	315
SWW0402-22RX*-*	22	25	250	2800	0.300	300
SWW0402-23RX*-*	23	22	250	2720	0.300	300
SWW0402-24RX*-*	24	22	250	2480	0.300	300
SWW0402-27RX*-*	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

SWW0402 SERIES







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Vanguard P/N	Inductance Nominal (nH)	Q min	Test Freq (MHz)	SRF min (MHz)	DCR Nominal (Ohms)	DC Current max (mA)
SWW0402-30RX*.*	30	24	250	2350	0.330	300
SWW0402-33RX*.*	33	24	250	2350	0.300	240
SWW0402-36RX*.*	36	24	250	2320	0.440	240
SWW0402-39RX*.*	39	25	250	2100	0.550	150
SWW0402-40RX*.*	40	25	250	2100	0.830	112
SWW0402-43RX*.*	43	25	250	2100	0.750	112
SWW0402-47RX*.*	47	25	250	2100	0.830	112
SWW0402-51RX*.*	51	25	250	1760	0.970	75
SWW0402-56RX*.*	56	25	250	1760	0.970	75
SWW0402-68RX*.*	68	25	250	1620	1.20	75
SWW0402-72RX*.*	72	15	100	1070	1.20	60
SWW0402-100RX*.*	100	15	100	1070	1.20	60
SWW0402-120RX*.*	120	12	100	580	1.30	56.25
SWW0402-130RX*.*	130	10	100	450	1.30	56.25
SWW0402-150RX*.*	150	13	100	400	1.30	45
SWW0402-180RX*.*	180	10	50	380	1.50	48.75
SWW0402-200RX*.*	200	10	50	400	1.50	37.5
SWW0402-220RX*.*	220	10	50	190	2.00	37.5

*See VE part number structure key

VE PART NUMBER STRUCTURE KEY

EXAMPLE: SWW0402-1R0KG-6

INDUCTANCE (nH)

1.0
1R0

*R = Decimal point

TOLERANCE

M	20%
K	10%
J	5%
G	2%
*F	1%

*Consult factory

TERMINATION

G	Gold
S	SnPb

RELIABILITY

6	Class "B"
7	Class "S"
8	Other

CUSTOM DESIGNS & MODIFICATIONS:

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

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