



SRFB SERIES

HIGH RELIABILITY FERRITE BEADS



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

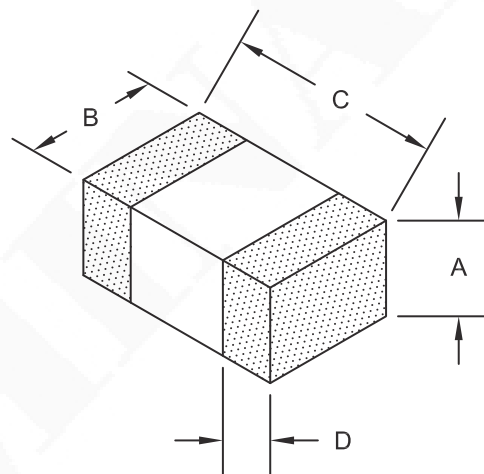
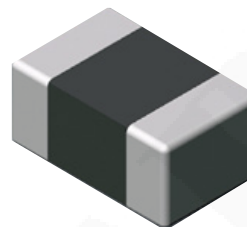
Impedance (Ω)	DCR max (Ω)	Current Rating max (A)
30 to 2000	0.004 to 1.5	0.20 to 8

ELECTRICAL SPECIFICATIONS

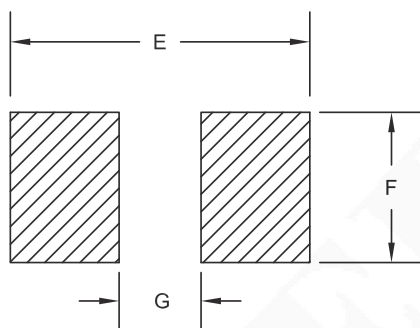
- **Operating Temperature:** -55°C to $+130^{\circ}\text{C}$
- **Storage Temperature:** -55°C to $+130^{\circ}\text{C}$
- **Impedance tolerances available:** $\pm 25\%$, $\pm 20\%$, $\pm 10\%$, $\pm 5\%$
- **Closed, linear magnetic path to avoid crosstalk**
- **Outgassing compliant per ASTM E595** (TML $<1\%$, CVCM $<0.1\%$)

FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981**
- **Terminations:** Tin-lead (over nickel)
- **Surface Mount Technology**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs



RECOMMENDED PAD LAYOUT



Package	E	F	G
0402	0.087 (2.20)	0.028 (0.70)	0.016 (0.40)
0603	0.110 (2.80)	0.039 (1.00)	0.024 (0.60)
0805	0.126 (3.20)	0.059 (1.50)	0.024 (0.60)
1206	0.173 (4.40)	0.071 (1.80)	0.047 (1.20)
1813	0.228 (5.80)	0.134 (3.40)	0.079 (2.00)
2220	0.362 (9.2)	0.240 (5.60)	0.118 (3.00)
3312	0.519 (13.20)	0.134 (3.40)	0.236 (6.00)

Dimensions are in inches (mm).

Package	A	B	C	D
0402	0.020 ± 0.002 (0.50 ± 0.05)	0.020 ± 0.002 (0.50 ± 0.05)	0.040 ± 0.002 (1.00 ± 0.05)	0.010 ± 0.006 (0.25 ± 0.15)
0603	0.031 ± 0.006 (0.80 ± 0.15)	0.031 ± 0.006 (0.80 ± 0.15)	0.063 ± 0.006 (1.60 ± 0.15)	0.016 ± 0.008 (0.40 ± 0.20)
0805	0.035 ± 0.008 (0.90 ± 0.20)	0.049 ± 0.008 (1.25 ± 0.20)	0.079 ± 0.008 (2.00 ± 0.20)	0.020 ± 0.012 (0.51 ± 0.30)
1206	0.043 ± 0.008 (1.10 ± 0.20)	0.063 ± 0.008 (1.60 ± 0.20)	0.126 ± 0.008 (3.20 ± 0.20)	0.028 ± 0.012 (0.70 ± 0.30)
1813	0.091 ± 0.010 (2.30 ± 0.25)	0.126 ± 0.010 (3.20 ± 0.25)	0.177 ± 0.010 (4.5 ± 0.25)	0.031 ± 0.012 (0.80 ± 0.30)
2220	0.126 ± 0.010 (3.20 ± 0.25)	0.200 ± 0.010 (5.08 ± 0.25)	0.220 ± 0.020 (5.59 ± 0.51)	0.030 ± 0.014 ($0.76 \pm .035$)
3312	0.090 ± 0.008 (2.28 ± 0.20)	0.120 ± 0.008 (3.05 ± 0.20)	0.335 ± 0.008 (8.5 ± 0.20)	0.043 ± 0.016 (1.09 ± 0.40)

Dimensions are in inches (mm).





DATA TABLE

Vanguard P/N	Impedance* (Ω)	DCR max (Ω)	Current Rating max (A)	Package
† SRFB0402-470**_*_*	470	1.5	0.25	0402
SRFB0603-300**_*_*	30	0.15	0.50	0603
SRFB0603-600**_*_*	60	0.15	0.50	0603
SRFB0603-101**_*_*	100	0.20	0.40	0603
SRFB0603-151**_*_*	150	0.25	0.40	0603
SRFB0603-181**_*_*	180	0.25	0.40	0603
† SRFB0603-220**_*_*	220	0.08	2.00	0603
SRFB0603-301**_*_*	300	0.30	0.20	0603
SRFB0603-401**_*_*	400	0.35	0.20	0603
† SRFB0603-600**_*_*	600	0.12	2.00	0603
SRFB0603-601**_*_*	600	0.40	0.20	0603
† SRFB0603-650**_*_*	650	0.8	0.20	0603
SRFB0603-102**_*_*	1000	0.60	0.20	0603
SRFB0805-300**_*_*	30	0.02	4.00	0805
SRFB0805-500**_*_*	50	0.08	2.00	0805
SRFB0805-600**_*_*	60	0.15	1.50	0805
SRFB0805-700**_*_*	70	0.15	1.50	0805
SRFB0805-101**_*_*	100	0.20	1.00	0805
† SRFB0805-120**_*_*	120	0.05	3.00	0805
SRFB0805-151**_*_*	120	0.20	1.00	0805
SRFB0805-121**_*_*	150	0.20	1.00	0805
† SRFB0805-220**_*_*	220	0.05	3.00	0805
SRFB0805-221**_*_*	220	0.20	1.00	0805
SRFB0805-331**_*_*	330	0.25	1.00	0805
SRFB0805-471**_*_*	470	0.25	1.00	0805
SRFB0805-601**_*_*	600	0.30	1.00	0805
SRFB0805-102**_*_*	1000	0.40	1.00	0805
SRFB1206-300**_*_*	30	0.01	4.00	1206
SRFB1206-500**_*_*	50	0.03	3.00	1206
SRFB1206-800**_*_*	80	0.10	1.50	1206
SRFB1206-121**_*_*	120	0.10	1.50	1206
SRFB1206-251**_*_*	250	0.10	1.50	1206
SRFB1206-501**_*_*	500	0.20	1.00	1206
SRFB1206-601**_*_*	600	0.30	1.00	1206
† SRFB1206-2000**_*_*	2000**	0.6	0.20	1206
† SRFB1813-100**_*_*	100	0.007	8.00	1813
† SRFB2220-550**_*_*	180	0.042	5.00	2220
† SRFB2220-270**_*_*	550	0.035	4.00	2220
† SRFB2220-270**_*_*	270	0.035	4.00	2220
† SRFB3312-100**_*_*	100	0.004	10.00	3312

* Impedance measured at 100 MHz

**Impedance measured at 30 MHz

† Recently added dash numbers

SRFB SERIES





VE PART NUMBER STRUCTURE KEY

EXAMPLE: SRFB0603-300KS-3-T

IMPEDANCE (Ω)

The first two digits are significant. The last digit specifies zeros to follow:

300 = 30 Ohms

TOLERANCE (%)

J	± 5
K	± 10
M	± 20
P	± 25

TERMINATION

S	SnPb
R	Pure Tin

RELIABILITY

1	EM
5	Class "B" (Group A)
6	Class "S" (Group A+B)
7	Other

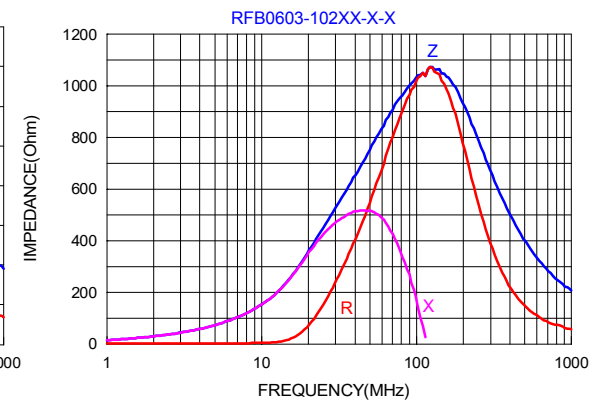
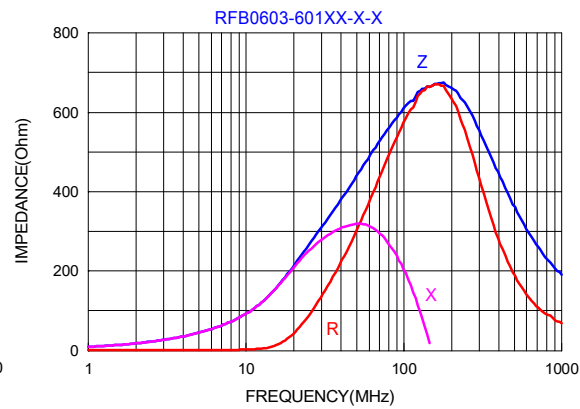
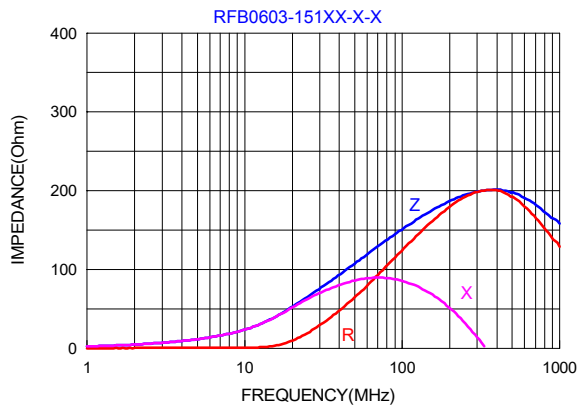
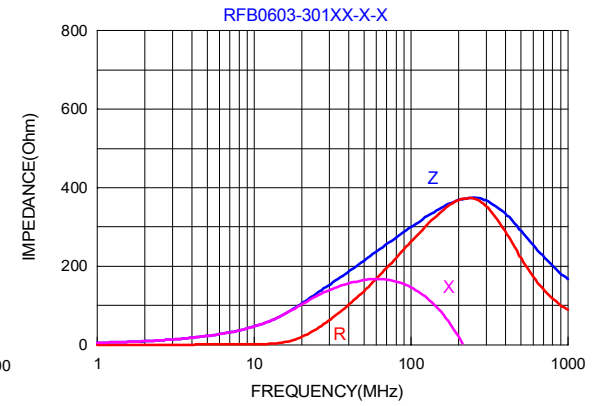
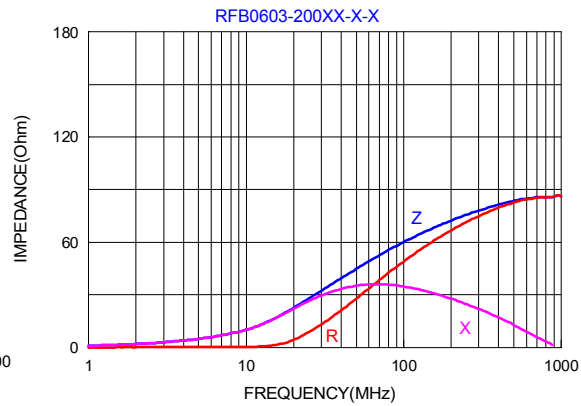
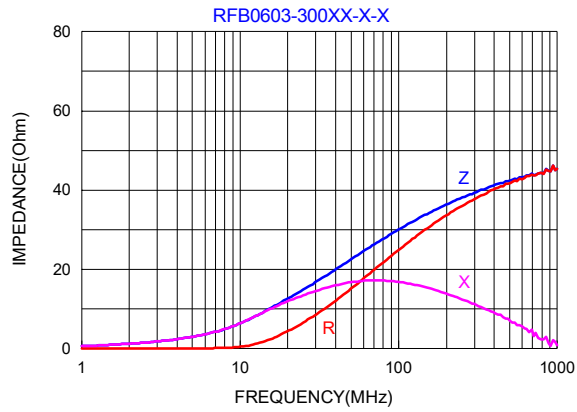
PACKAGING (Default Bulk)

B	Bulk
T	Tape and Reel

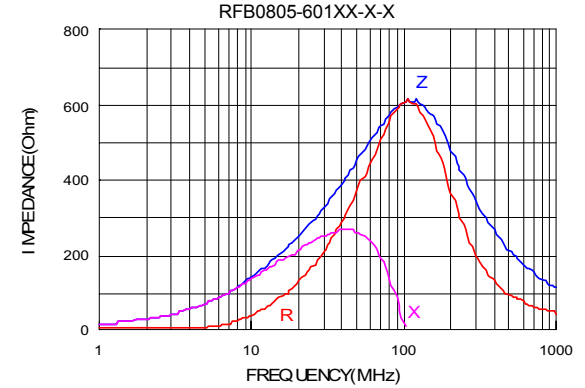
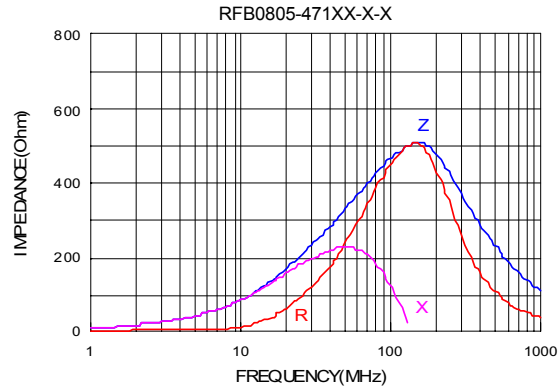
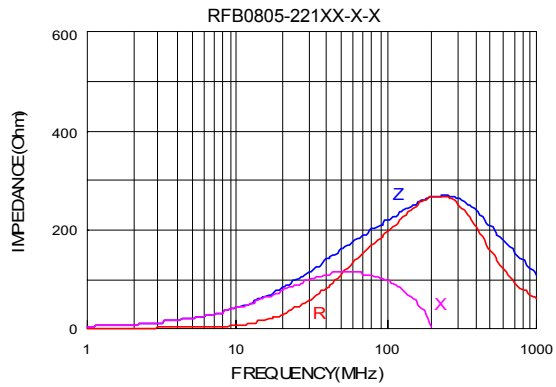
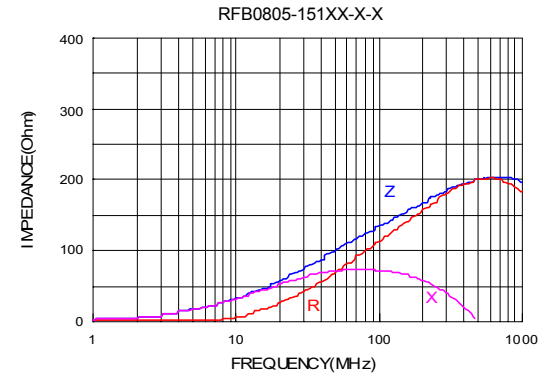
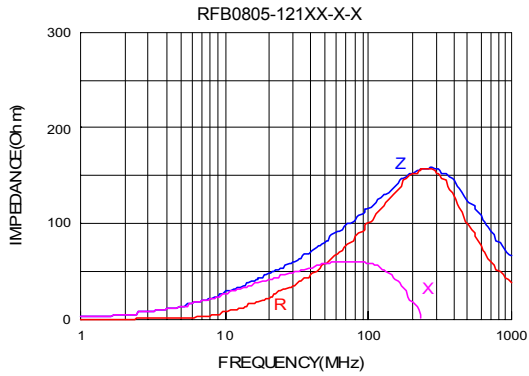
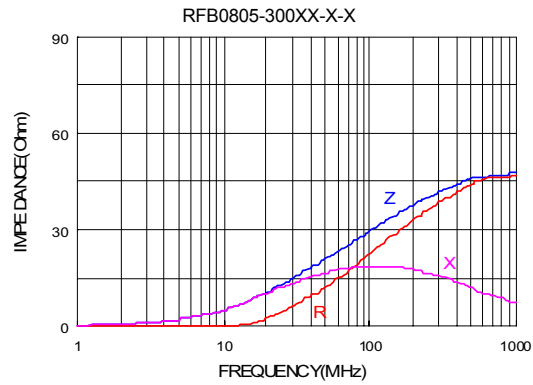
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Impedance Frequency Characteristics (Typical)



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