



RFB SERIES

HIGH RELIABILITY FERRITE BEADS



ALL PARTS AVAILABLE WITH GROUP A, B, AND C TESTING

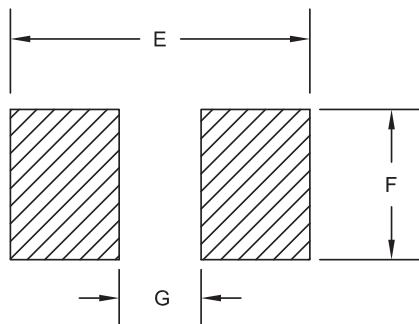
DSCC 03024

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -55°C to +125°C
- **Impedance tolerances available:**
± 25%, ± 20%, ± 10%, ± 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
- **DSCC Approved** (tested per Drawing 03024)
- **Terminations:** Tin-lead (over nickel)
- **Surface Mount Technology**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs
- Group A/B Data supplied with every shipment
- Group C inspection is optional

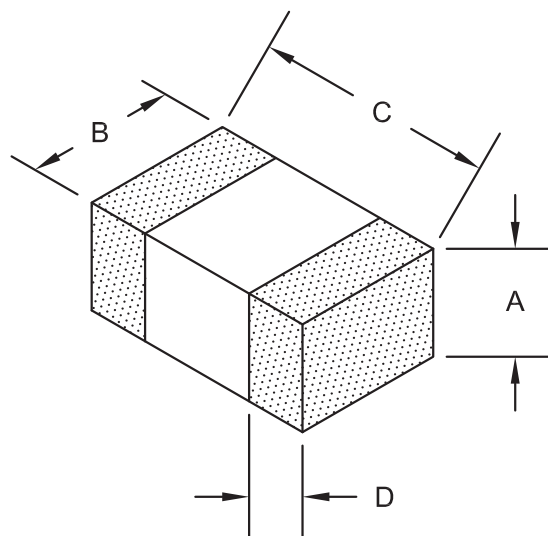
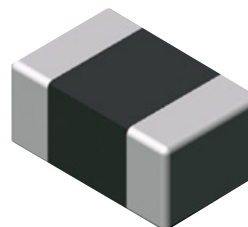


RECOMMENDED PAD LAYOUT

Package	E	F	G
0603	0.102 (2.60)	0.031 (0.80)	0.023 (0.60)
0805	0.118 (3.00)	0.039 (1.00)	0.039 (1.00)
1206	0.173 (4.40)	0.055 (1.40)	0.086 (2.20)

Dimensions are in inches (mm).

Impedance (Ω)	DCR max (Ω)	Current Rating max (A)
30 to 1000	0.01 to 0.60	0.20 to 4



Package	A	B	C	D
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)	0.014 ± 0.006 (0.36 ± 0.15)
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 ± 0.010 (0.51 ± 0.25)
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)	0.020 ± 0.010 (0.51 ± 0.25)

Dimensions are in inches (mm).

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DATA TABLE

Vanguard P/N	DSCC P/N (ref only)	Impedance* (Ω)	DCR max (Ω)	Current Rating max (A)	Package
RFB0603-300**-*	03024-001P	30	0.15	0.50	0603
RFB0603-600**-*	03024-002P	60	0.15	0.50	0603
RFB0603-101**-*	03024-003P	100	0.20	0.40	0603
RFB0603-151**-*	03024-004P	150	0.25	0.40	0603
RFB0603-181**-*	03024-005P	180	0.25	0.40	0603
RFB0603-301**-*	03024-006P	300	0.30	0.20	0603
RFB0603-401**-*	03024-007P	400	0.35	0.20	0603
RFB0603-601**-*	03024-008P	600	0.40	0.20	0603
RFB0603-102**-*	03024-009P	1000	0.60	0.20	0603
RFB0805-300**-*	03024-010P	30	0.02	4.00	0805
RFB0805-500**-*	03024-011P	50	0.08	2.00	0805
RFB0805-600**-*	03024-012P	60	0.15	1.50	0805
RFB0805-700**-*	03024-013P	70	0.15	1.50	0805
RFB0805-101**-*	03024-014P	100	0.20	1.00	0805
RFB0805-121**-*	03024-015P	120	0.20	1.00	0805
RFB0805-151**-*	03024-016P	150	0.20	1.00	0805
RFB0805-221**-*	03024-017P	220	0.20	1.00	0805
RFB0805-331**-*	03024-018P	330	0.25	1.00	0805
RFB0805-471**-*	03024-019P	470	0.25	1.00	0805
RFB0805-601**-*	03024-020P	600	0.30	1.00	0805
RFB0805-102**-*	03024-021P	1000	0.40	1.00	0805
RFB1206-300**-*	03024-022P	30	0.01	4.00	1206
RFB1206-500**-*	03024-023P	50	0.03	3.00	1206
RFB1206-800**-*	03024-024P	80	0.10	1.50	1206
RFB1206-121**-*	03024-025P	120	0.10	1.50	1206
RFB1206-251**-*	03024-026P	250	0.10	1.50	1206
RFB1206-501**-*	03024-027P	500	0.20	1.00	1206
RFB1206-601**-*	03024-028P	600	0.30	1.00	1206

*Impedance measured at 100 MHz

VE PART NUMBER
STRUCTURE KEY

EXAMPLE: RFB0603-300KS-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
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RELIABILITY

2	Group A
3	Group A+B
4	Group A+B+C
7	Other

PACKAGING
(Default Bulk)

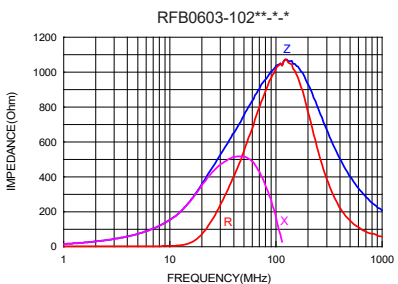
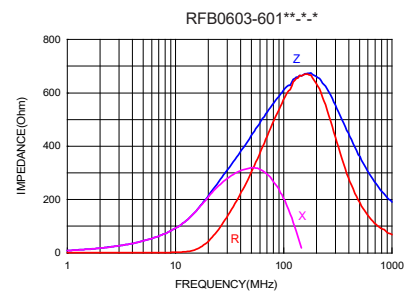
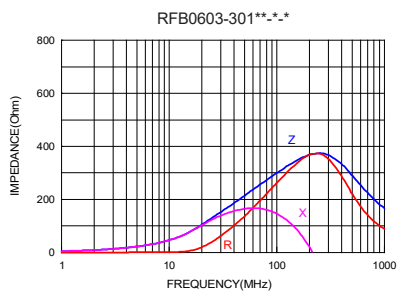
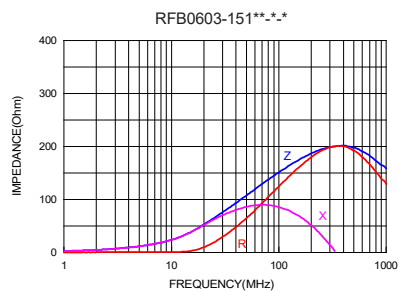
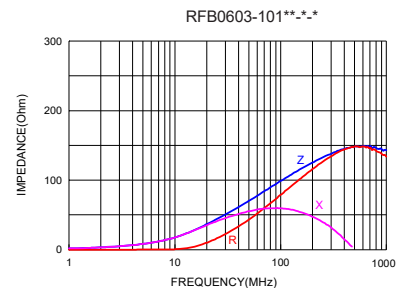
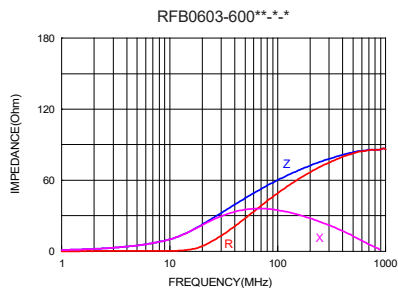
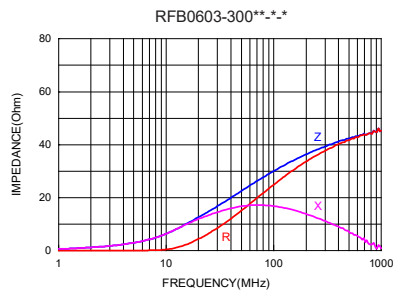
B	Bulk
T	Tape and Reel

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DATA CURVES

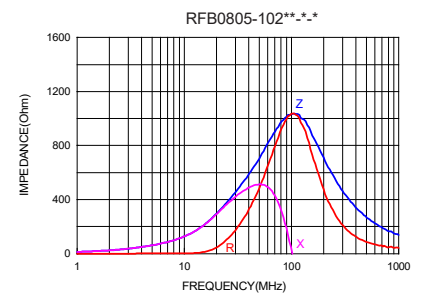
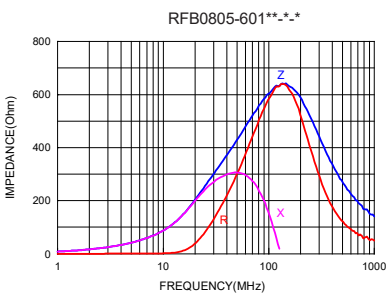
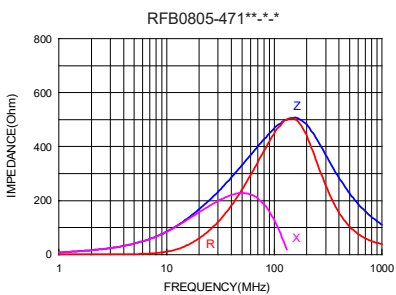
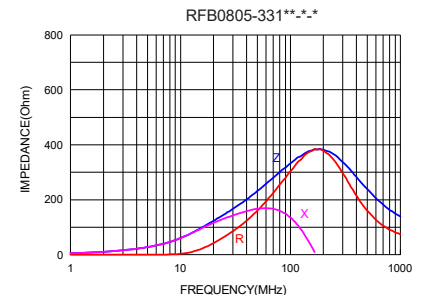
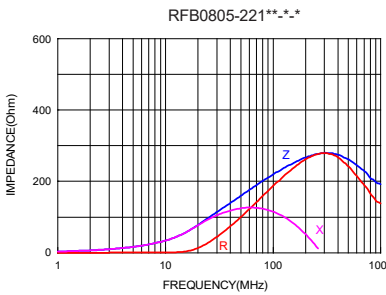
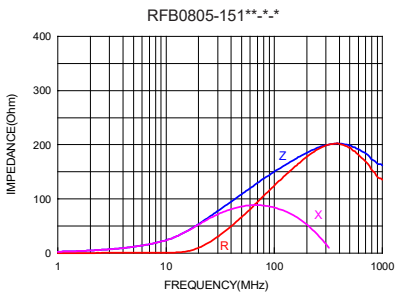
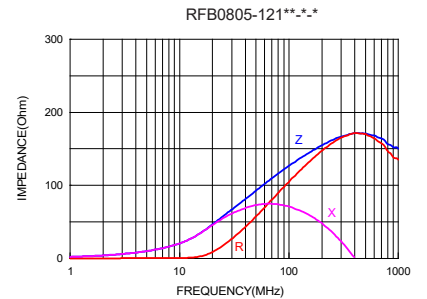
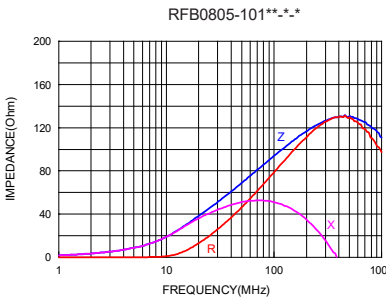
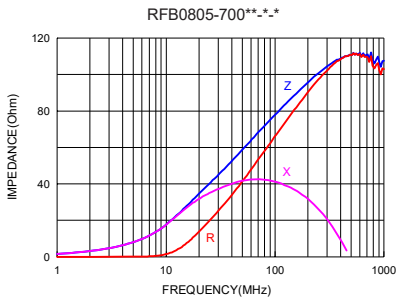
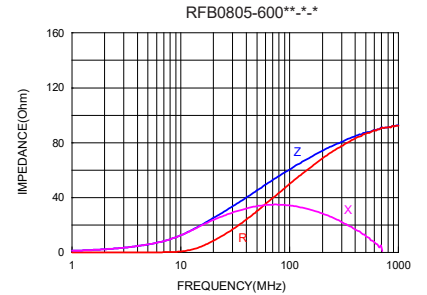
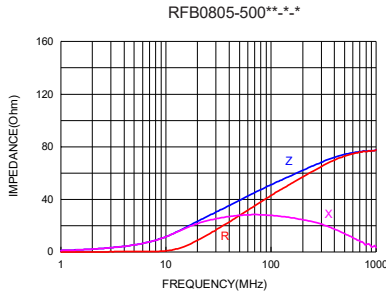
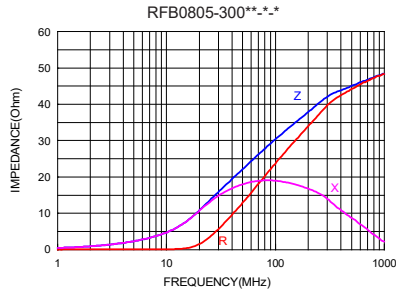


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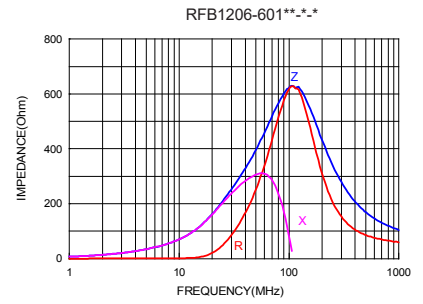
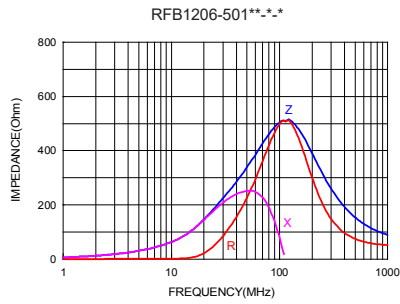
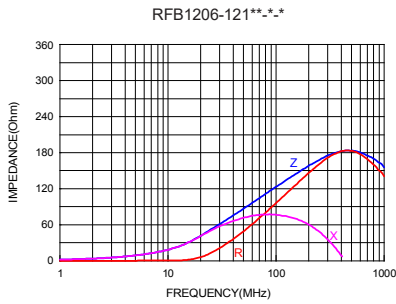
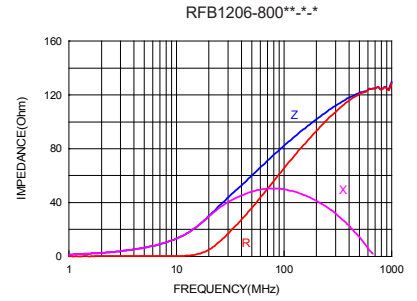
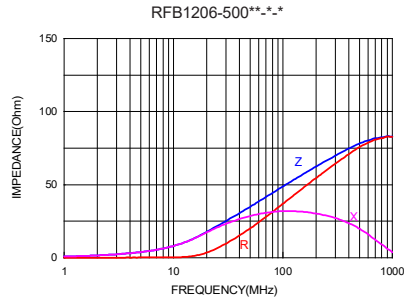
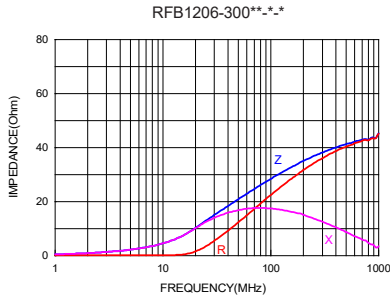


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