



Wirewound Ferrite Beads – 0805RB (2012)

- Superior performance to traditional thick-film chip ferrite beads in the market
- High SRF and low DCR combination for high-frequency and high-current applications without core saturation
- Optimized high impedance over a wide frequency range

Part number ¹	L (µH) ² @ 7.9 MHz	Impedance typ				SRF typ ³ (MHz)	DCR max ⁴ (mOhms)	I _{rms} (mA)			Color Code ⁸
		100 MHz	900 MHz	1.7 GHz	25°C ⁵			85°C ⁶	125°C ⁷		
0805RB-121XMR_	0.19	120	2900	1000	1000	130	1200	1100	640	Black	
0805RB-151XMR_	0.24	150	4200	1060	970	150	1100	1025	600	Brown	
0805RB-221XMR_	0.33	220	2360	660	650	180	1000	950	560	Red	
0805RB-331XMR_	0.53	330	3300	920	650	235	900	810	480	Orange	
0805RB-421XMR_	0.66	420	2100	760	550	245	850	775	460	Yellow	
0805RB-471XMR_	0.75	470	2000	760	530	295	800	750	440	Green	
0805RB-601XMR_	0.95	600	2125	840	500	385	700	625	370	Blue	
0805RB-751XMR_	1.20	750	1900	770	440	405	650	600	360	Violet	
0805RB-102XMR_	1.60	1000	1700	710	375	810	450	425	260	Gray	
0805RB-152XMR_	2.35	1500	1600	960	310	1160	425	400	250	White	
0805RB-222XMR_	2.60	2200	1000	900	150	1200	350	325	205	Brown	
0805RB-272XMR_	2.87	2700	475	830	100	1320	325	300	195	Red	

1. When ordering, please specify **termination** and **packaging** codes:

0805RB-272XMR_C

Termination: R = RoHS compliant matte tin over nickel over silver-platinum-glass frit.

Special order: Q = RoHS tin-silver-copper (95.5/4/0.5) or P = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).

- Inductance measured at 0.1 V_{rms}, using Coilcraft SMD-A fixture in Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.
 - SRF measured using Agilent/HP 8753D network analyzer with Coilcraft SMD-D test fixture.
 - DCR measured on Cambridge Technology Micro-ohmmeter.
 - Current that cause 15°C rise at 25°C.
 - Maximum current that can be applied at 85°C.
 - Maximum current that can be applied at 125°C.
 - Each part is marked with a single dot. The color dots are not unique identifiers and correspond to multiple inductance values..
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Environmental RoHS compliant without exemption, halogen free

Terminations RoHS compliant matte tin over nickel over silver-platinum-glass frit. Other terminations available at additional cost.

Weight 15 – 18 mg

Ambient temperature -40°C to +85°C with I_{rms} current

Maximum part temperature +100°C (ambient + temp rise).

Storage temperature Component: -40°C to +100°C.

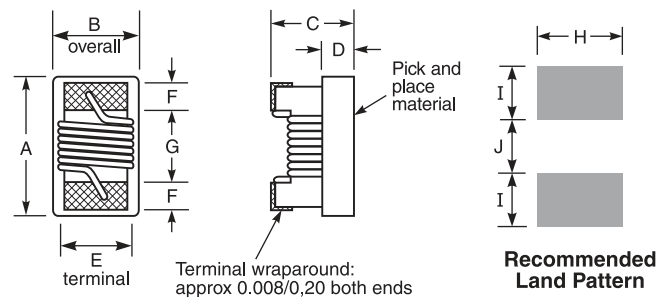
Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 2000/7"reel; 7500/13"reel; Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.65 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).



A	B	C	D	E	F	G	H	I	J
max	max	max	ref						
0.090	0.068	0.060	0.020	0.050	0.014	0.054	0.070	0.040	0.030
2,29	1,73	1,52	0,51	1,27	0,36	1,37	1,78	1,02	0,76

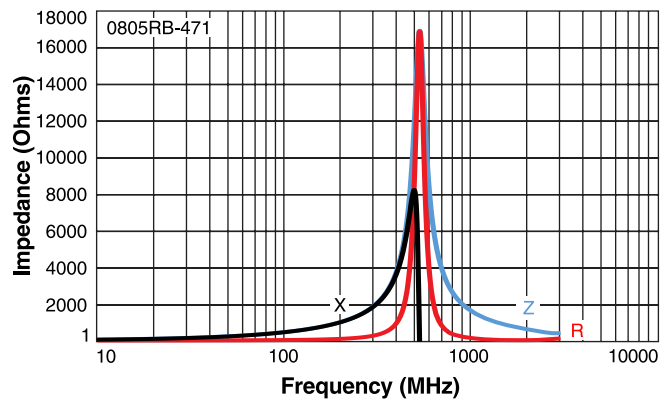
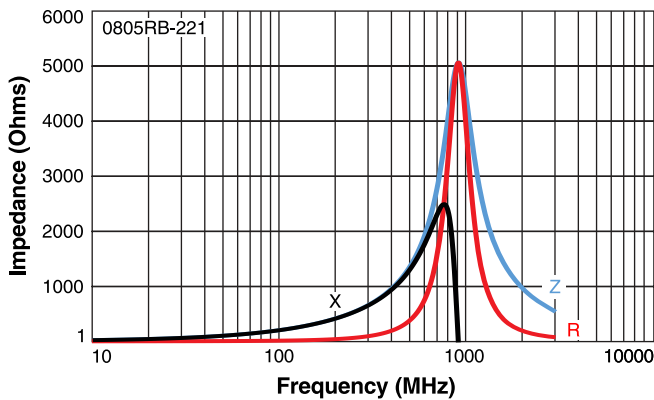
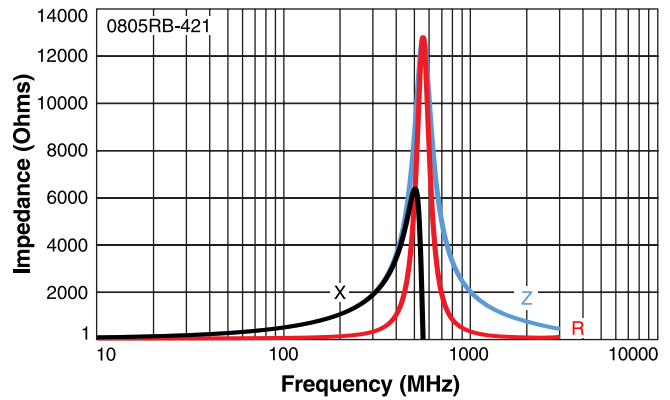
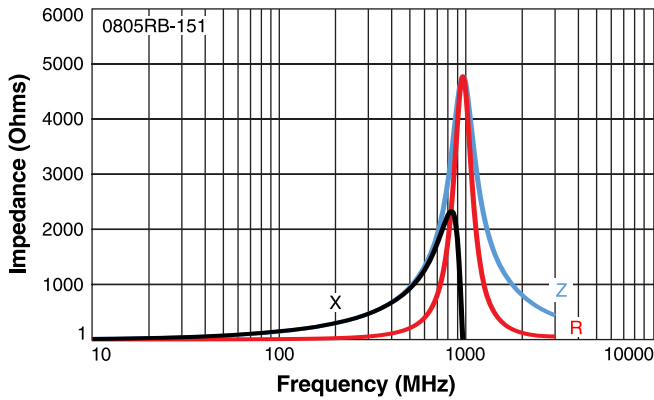
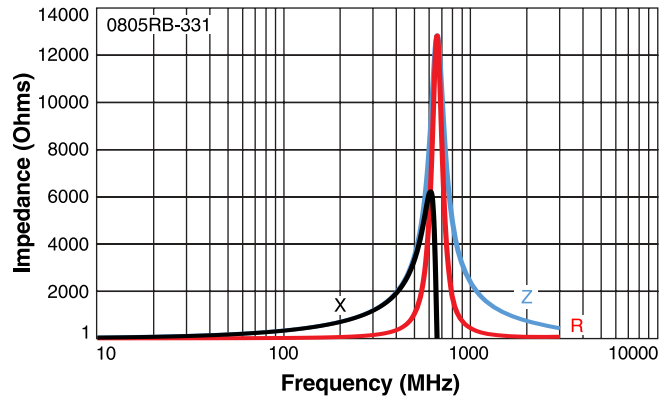
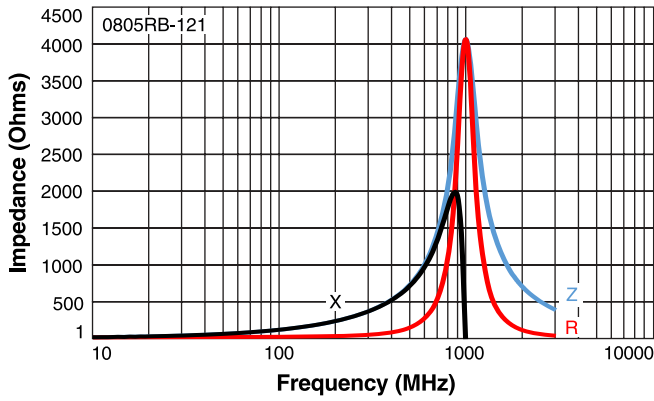
mm

Note: Height dimension (C) is before optional solder application. For maximum height dimension including solder, add 0.006 in / 0,152 mm.



Wirewound Ferrite Beads – 0805RB Series

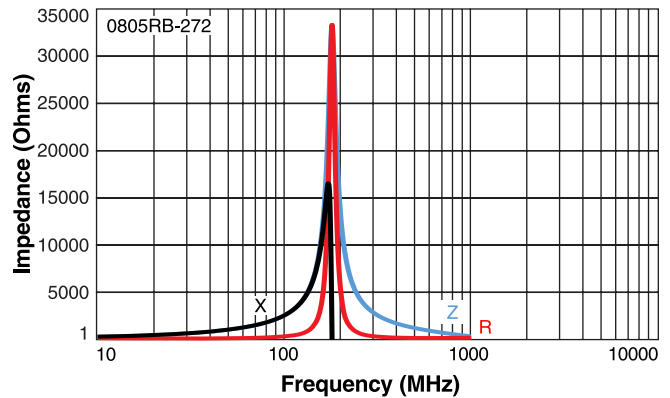
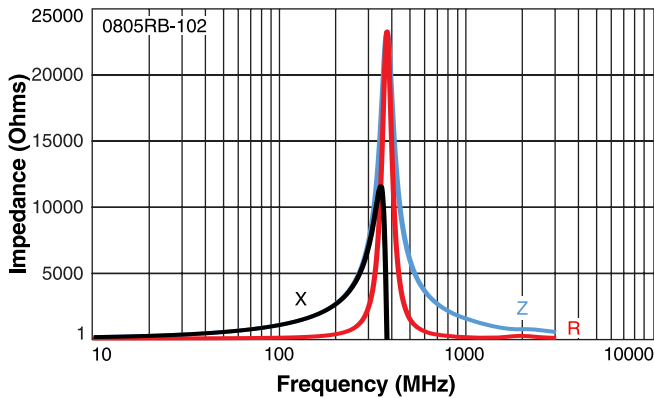
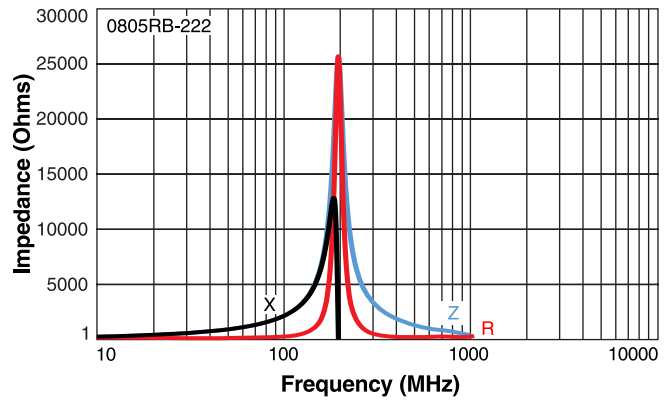
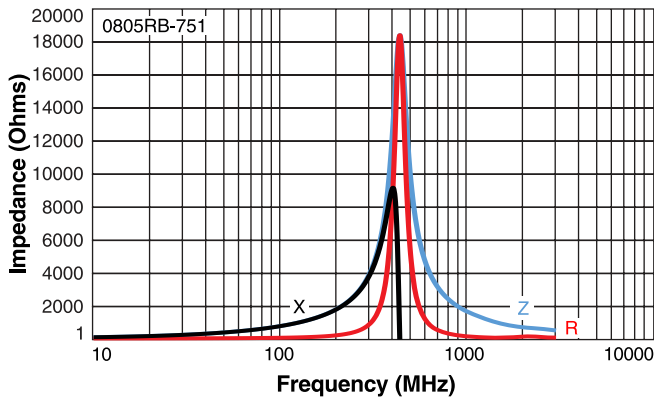
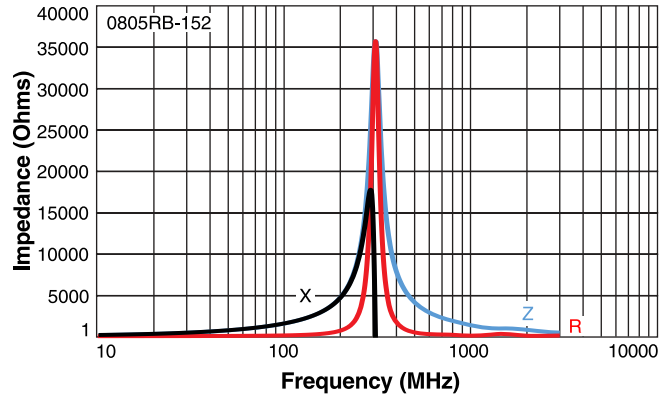
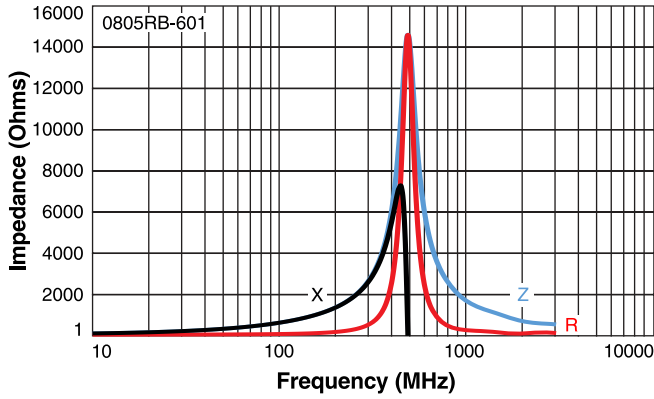
Impedance vs Frequency





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Impedance vs Frequency



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