

**NEW!**

# Wirewound Ferrite Beads 0805PB (2012)



- Optimized for high-frequency noise suppression on high-current power supply lines
- Current ratings as high as 4.4 Amps
- AEC-Q200 Grade 1 (-40°C to +125°C)
- Wider spectrum of suppression than traditional ferrite beads
- Robust mechanical structure for use in automotive applications and other harsh environments

Part number <sup>1</sup>	Impedance <sup>2</sup> 100 MHz ±20% (Ohms)	Impedance 900 MHz (Ohms)	Impedance 1.7 GHz (Ohms)	Inductance typ <sup>3</sup> (µH)	SRF typ <sup>4</sup> (MHz)	DCR max <sup>5</sup> (mOhms)	I <sub>rms</sub> (A)		
							25°C <sup>6</sup>	85°C <sup>7</sup>	125°C <sup>8</sup>
0805PB-250XMR_	25	75	120	0.10	3200	12.2	4.40	3.96	2.25
0805PB-101XMR_	100	250	400	0.40	1800	19.0	3.20	2.88	1.64
0805PB-221XMR_	220	700	1000	0.90	1100	30.5	3.00	2.70	1.53
0805PB-331XMR_	330	1100	1350	1.2	950	37.8	2.40	2.17	1.23
0805PB-601XMR_	600	1700	1700	2.3	680	62.2	1.90	1.70	0.96
0805PB-102XMR_	1000	2700	1500	3.6	480	139.1	1.40	1.26	0.71

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

**0805PB-102XMR\_C**

**Termination:** **R** = RoHS compliant matte tin over nickel over silver  
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).

2. Impedance measured at 100 MHz at 0.5 V<sub>rms</sub>, using E4982 (or equivalent) with correlation.
  3. Inductance measured at 100 KHz at 0.1 V<sub>rms</sub>, using Coilcraft SMD-A fixture on an Agilent 4263 (or equivalent) without correlation.
  4. SRF is measured on an Agilent 8753ES (or equivalent) with a Coilcraft SMD-D test fixture.
  5. DCR is measured on a Keithley 580 Micro-ohmmeter (or equivalent) with a Coilcraft CCF858 test fixture.
  6. Current that cause 40°C rise at 25°C.
  7. Current that cause 40°C rise at 85°C.
  8. Current that cause 15°C rise at 125°C.
  9. 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. Other terminations available at additional cost.

**Weight** 14.0 – 15.5 mg

**Ambient temperature** -40°C to +125°C with I<sub>rms</sub> current

**Maximum part temperature** +140°C (ambient + temp rise). [Derating](#).

**Storage temperature** Component: -40°C to +140°C.

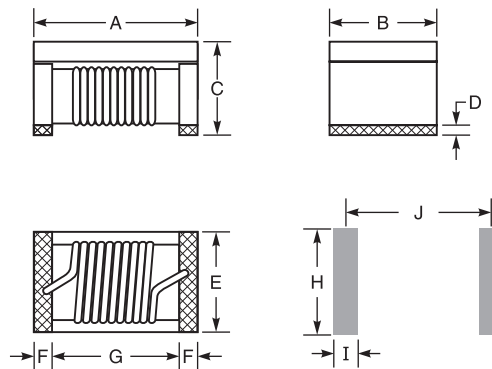
Tape and reel packaging: -40°C to +80°C

**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, 1.3 mm pocket depth

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).



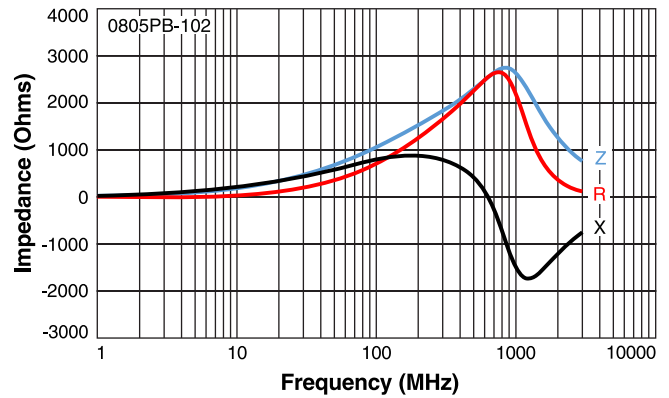
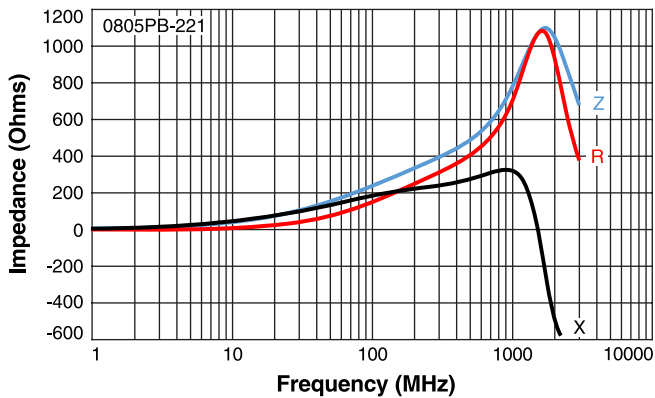
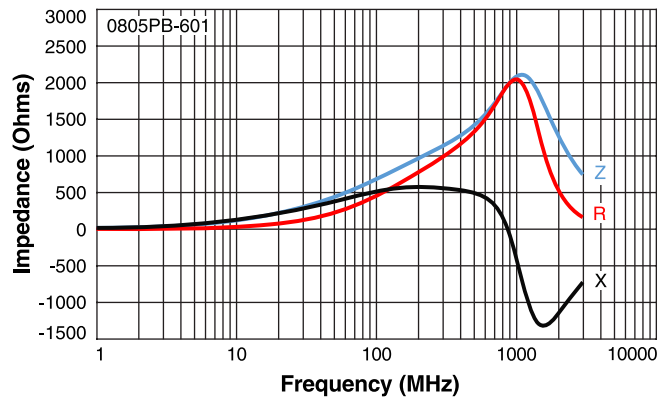
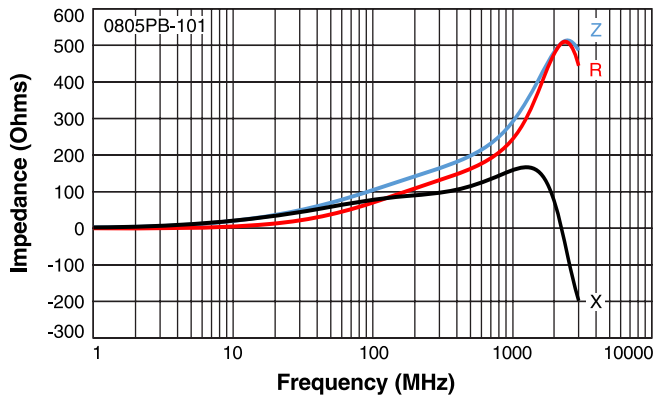
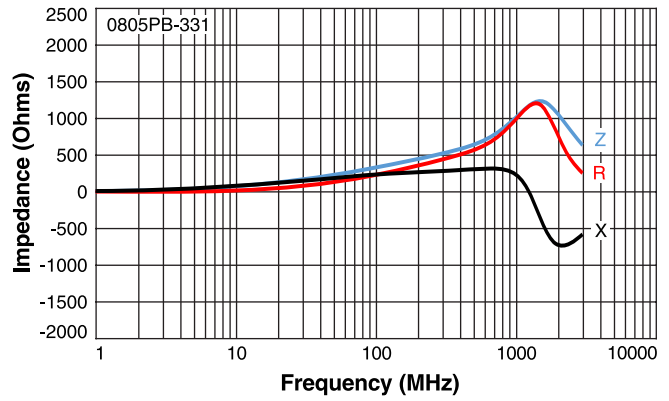
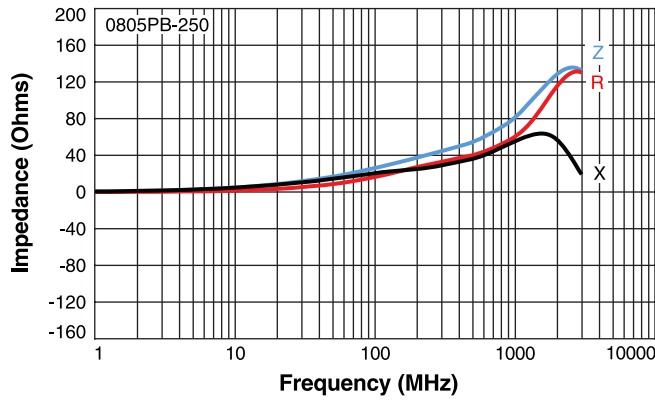
**Recommended Land Pattern**

A	B	C	D	E	F	G	H	I	J
max	max	max	ref	ref	ref	ref	nom	nom	nom
0.086	0.054	0.047	0.006	0.050	0.018	0.096	0.055	0.026	0.066
2,18	1,37	1,20	0,15	1,27	0,46	2,44	1,40	0,66	1,68



# Wirewound Ferrite Beads – 0805PB Series

## Impedance vs Frequency



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