

### ILBB-0603

Vishay Dale

#### **Multilayer Ferrite Beads**



#### **MECHANICAL SPECIFICATIONS**

**Solderability:** 90 % coverage after 5 s dip in 235 °C solder following 60 s preheat at 120 °C to 150 °C and type R flux dip

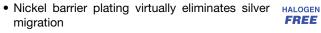
**Resistance to Solder Heat:** 10 s in 260 °C solder, after preheat and flux per above

**Terminal Strength:** 0.3 kg (0.66 lbs) minimum for 30 s **Beam Strength:** 0.3 kg (0.66 lbs) minimum

STANDARD ELECTRICAL SPECIFICATIONS					
Z ± 25 % AT 100 MHz (Ω)	DCR MAX. (Ω)	RATED DC CURRENT (mA)			
10	0.05	500			
30	0.09	500			
40	0.10	400			
60	0.10	400			
68	0.10	200			
80	0.20	150			
120	0.20	150			
150	0.30	150			
180	0.30	150			
220	0.30	150			
300	0.35	150			
420	0.40	150			
450	0.40	100			
600	0.45	100			
750	0.60	100			
1000	0.60	100			
1500	0.70	50			
2000	0.80	50			

#### FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded



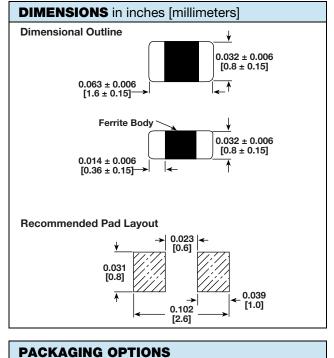
 Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### **ENVIRONMENTAL SPECIFICATIONS**

**Operating Temperature:** - 55 °C to + 125 °C

Thermal Shock: 100 cycles, - 40 °C to + 125 °C

Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated current



#### Tape and Reel: Embossed plastic carrier tape per EIA481-1,

4000 pieces on a 7" [178 mm] reel

DESCRIPTION	l				
ILBB-0603	30	± 25 %	ER	e3	
MODEL	IMPEDANCE VALUE	IMPEDANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD	
GLOBAL PAR	<b>NUMBER</b>				
	ВВО	6 0 3	E R	3 0 0	V
PRODUC	T FAMILY	SIZE	PACKAGE CODE		/IPEDANCE OLERANCE

Revision: 16-Aug-12

For technical questions, contact: magnetics@vishay.com

Document Number: 34024

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RoHS

COMPLIANT

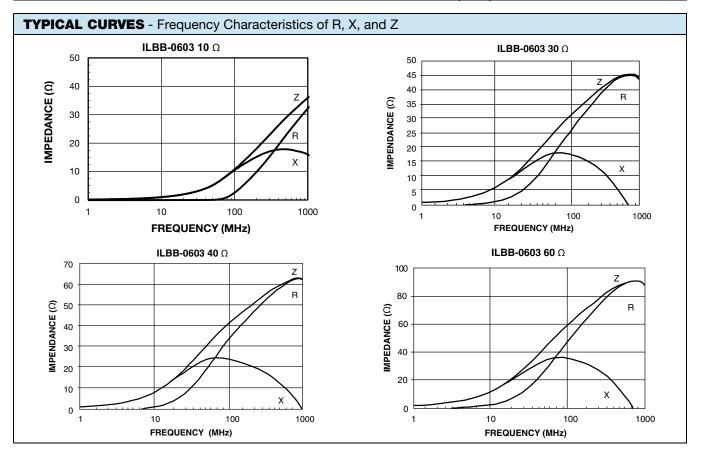
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TAPE AND REEL SPECIFICATIONS 0603 SIZE PER EIA-481-1 in inches [millimeters]					
$P_2 \longrightarrow   \leftarrow E_1  W$	A <sub>0</sub>	0.045 ± 0.004 [1.14 ± 0.1]			
$   \qquad P_{\circ} \longrightarrow   \qquad   \longleftarrow   \qquad \int \mathscr{O} D_{\circ} \qquad \qquad \downarrow \stackrel{F}{\downarrow} \qquad \longrightarrow   \longleftarrow T $	B <sub>0</sub>	0.071 ± 0.008 [1.80 ± 0.2]			
	D <sub>0</sub>	0.059 + 0.004/- 0.000 [1.5 + 0.1/- 0.0]			
	D <sub>1</sub>	0.039 min. [1.0 min.]			
	E1	0.069 ± 0.004 [1.75 ± 0.1]			
$\begin{vmatrix} & \emptyset D_1 & \_ \\ & \longrightarrow &   & \longleftarrow A_n & & & & \\ & & & & & & & & & \\ & & & & $	F	0.138 ± 0.002 [3.50 ± 0.05]			
	K <sub>0</sub>	0.045 ± 0.002 [1.15 ± 0.05]			
ØCØN	P <sub>0</sub>	0.157 ± 0.004 [4.00 ± 0.1]			
	P <sub>1</sub>	0.157 ± 0.004 [4.00 ± 0.1]			
	P <sub>2</sub>	0.079 ± 0.002 [2.00 ± 0.05]			
	W	0.327 max. [8.3 max.]			
	т	$0.008 \pm 0.002 \ [0.2 \pm 0.05]$			
$W_1 \longrightarrow W_1 \longleftarrow$	А	7.000 ± 0.079 [178 ± 2.0]			
Empty Trailer Components Empty Tape Cover Tape Leader   > O O O O O O O O O O O O O O O O O O		2.500 [63.5] min.			
		0.51 ± 0.020/- 0.008 [13.00 ± 0.5/- 0.5]			
	W <sub>1</sub>	0.315 + 0.059/- 0.000 [8.00 + 1.5/- 0.0]			
$\rightarrow 160 \text{ mm Minimum} \qquad \qquad$	T <sub>1</sub>	0.079 ± 0.002 [2.00 ± 0.05]			



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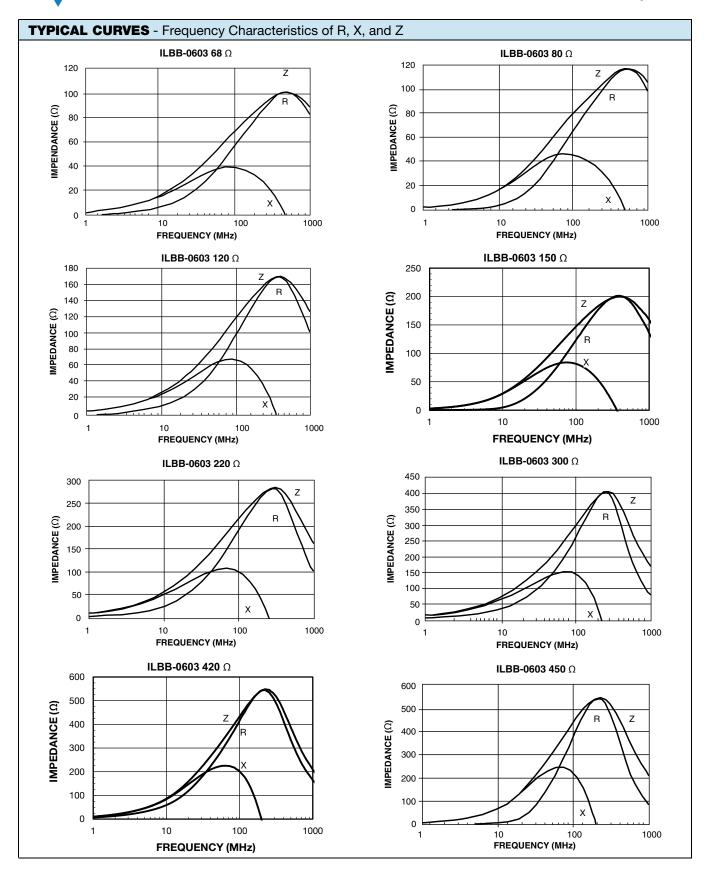
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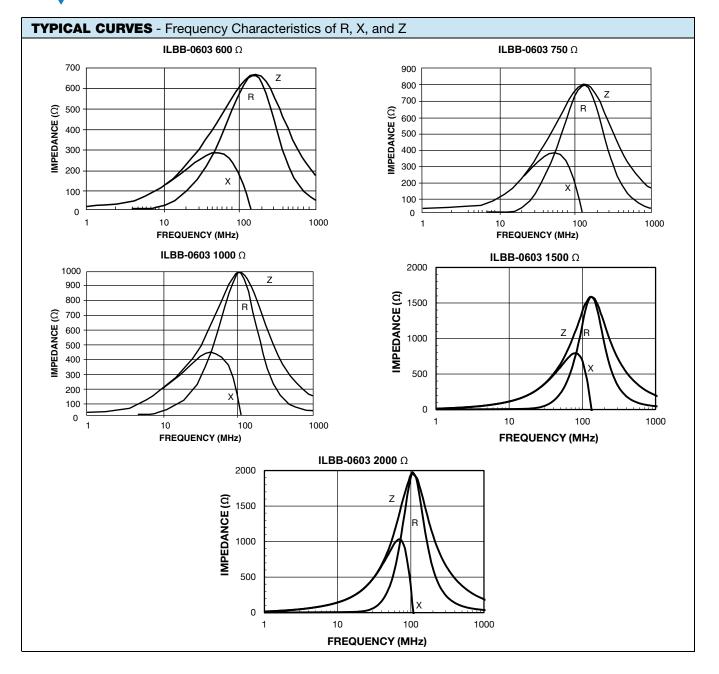
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