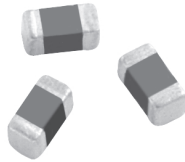


## Multilayer Ferrite Beads



### MECHANICAL SPECIFICATIONS\*

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

**Resistance To Solder Heat:** 10 seconds in 260°C solder after preheat and flux per above.

**Terminal Strength:** 0.3 kilograms (0.66 pounds) minimum for 30 seconds.

**Beam Strength:** 0.3 kilogram (0.66 pounds) minimum.

### FEATURES

- High reliability.
- Surface mountable.
- Magnetically self shielded.
- Nickel barrier plating virtually eliminates silver migration.

### 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 hours at full rated current.

### STANDARD ELECTRICAL SPECIFICATIONS

Z @ 100MHz (± 25%)	DCR MAX. (Ohms)	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

### PACKAGING OPTIONS

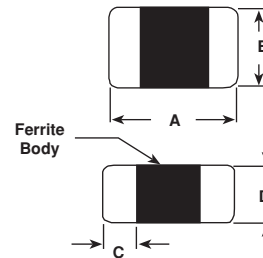
- Tape and Reel:  
Embossed plastic carrier tape  
Per EIA481-1  
4000 pieces on a 7" [178mm] reel

### DESCRIPTION

ILBB-0603	30	± 25%
MODEL	IMPEDANCE VALUE	IMPEDANCE TOLERANCE

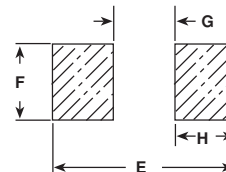
### DIMENSIONS in inches [millimeters]

#### Dimensional Outline



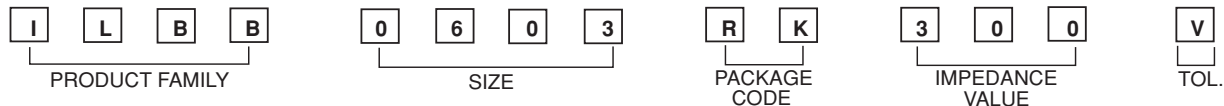
A	B	C	D
0.063 ± .006 [1.6 ± 0.15]	0.032 ± .006 [0.8 ± 0.15]	0.014 ± .006 [0.36 ± 0.15]	0.032 ± .006 [0.8 ± 0.15]

#### Suggested Pad Layout



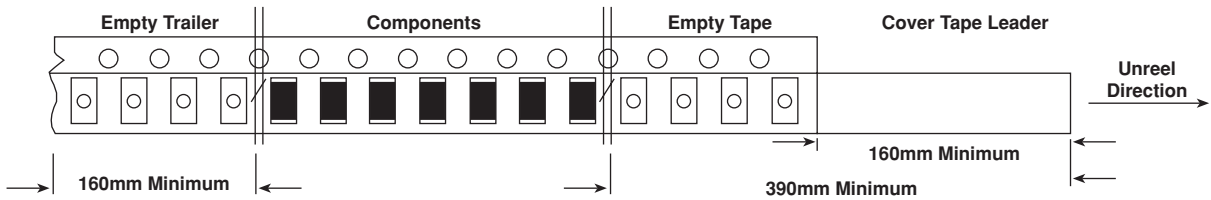
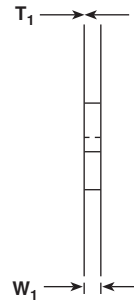
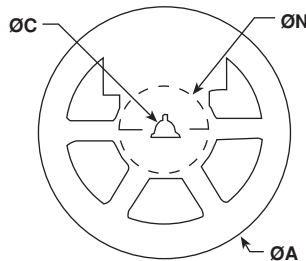
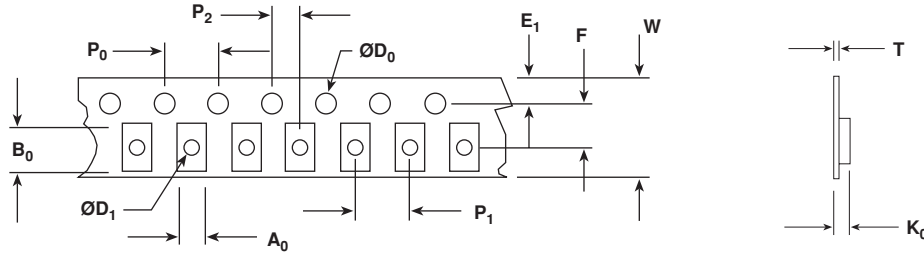
E	F	G	H
0.102 [2.6]	0.031 [0.8]	0.023 [0.6]	0.039 [1.0]

### SAP PART NUMBERING GUIDELINES (INTERNAL)



See the end of this data book for conversion tables

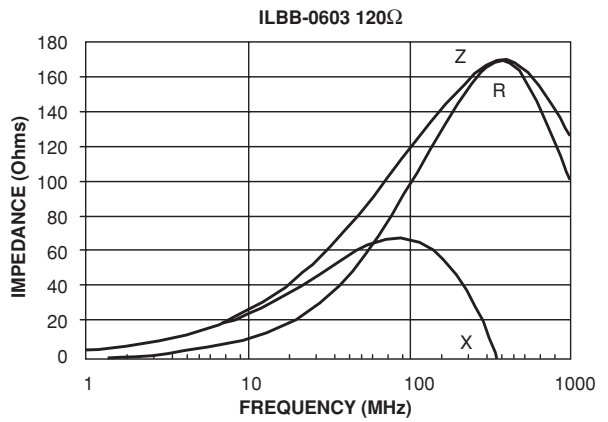
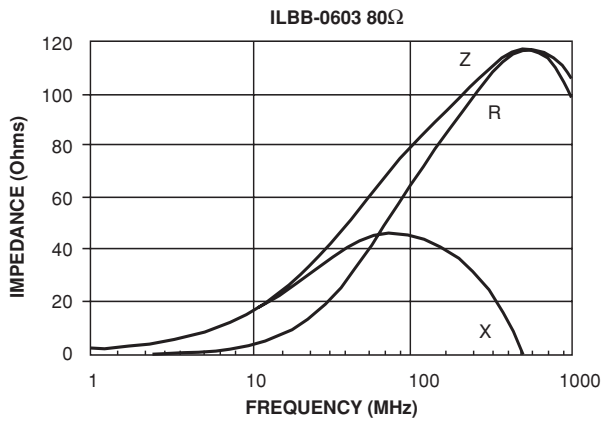
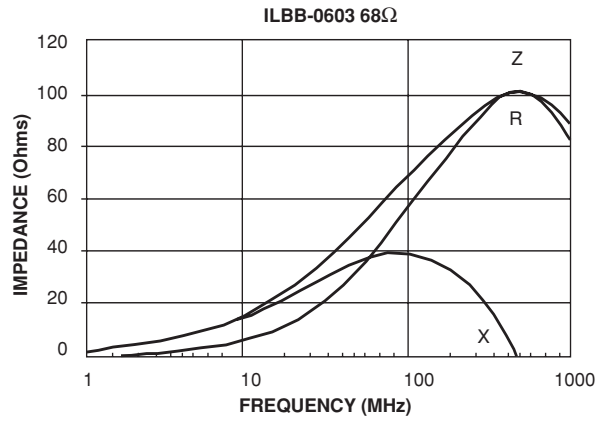
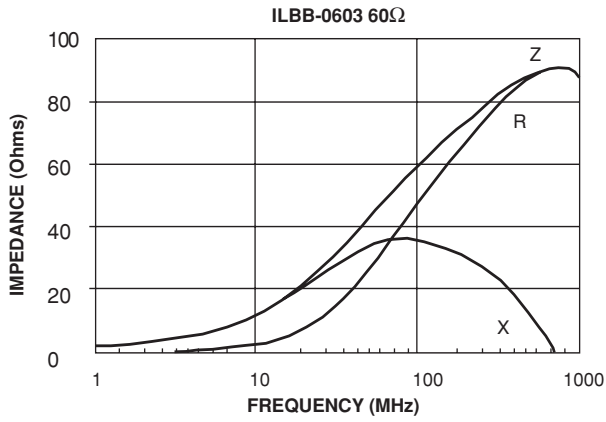
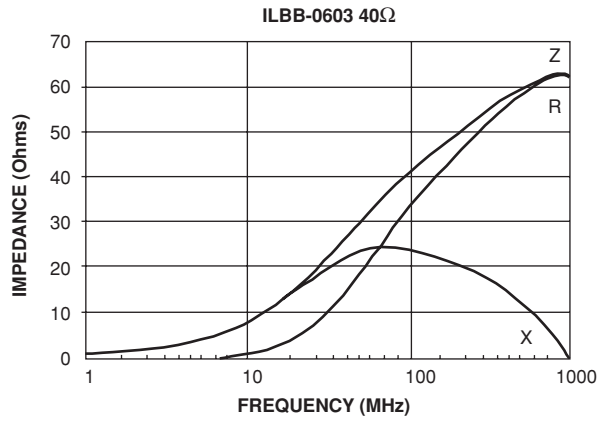
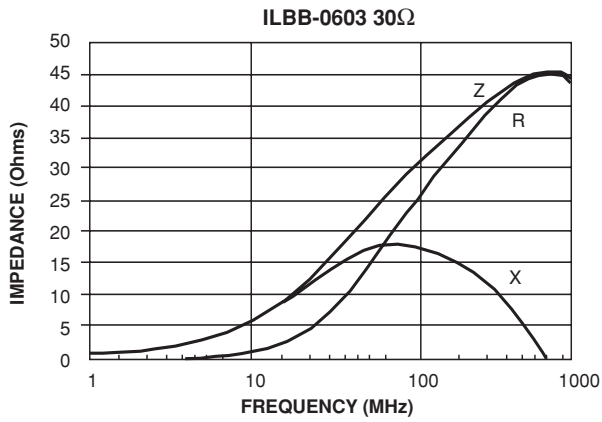
**TAPE AND REEL SPECIFICATIONS 0603 SIZE PER EIA-481-1** in inches [millimeters]



$A_0$	$0.045 \pm .004$ [1.14 $\pm$ 0.1]	$P_2$	$0.079 \pm .002$ [2.00 $\pm$ 0.05]
$B_0$	$0.071 \pm .008$ [1.80 $\pm$ 0.2]	$W$	0.327 Max. [8.3 Max.]
$D_0$	$0.059 + .004/- 0.000$ [1.5 + 0.1]	$T$	$0.008 \pm .002$ [0.2 $\pm$ 0.05]
$D_1$	0.039 Min. [1.0 Min.]	$A$	$7.000 \pm .079$ [178.0 $\pm$ 2.0]
$E_1$	$0.069 \pm .004$ [1.75 $\pm$ 0.1]	$N$	2.500 [63.5] Min.
$F$	$0.138 \pm .002$ [3.50 $\pm$ 0.05]	$C$	$0.51 + 0.02/- 0.008$ [13 + 0.5]
$K_0$	$0.045 \pm .002$ [1.15 $\pm$ 0.05]	$W_1$	$0.315 + 0.059/- 0.00$ [8.00 $\pm$ 1.50]
$P_0$	$0.157 \pm .004$ [4.00 $\pm$ 0.1]	$T_1$	$0.079 \pm .002$ [2.00 $\pm$ 0.05]
$P_1$	$0.157 \pm .004$ [4.00 $\pm$ 0.1]		



**TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF R, X AND Z**





**TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF R, X AND Z**

