

METRIC STANDARDS

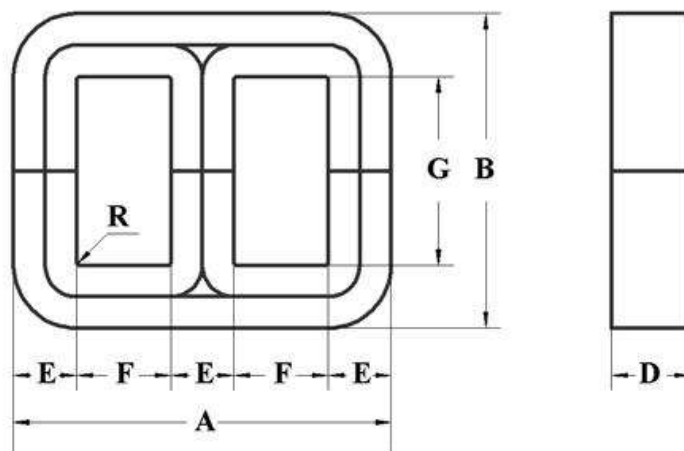
Mechanical Tolerances

- Exterior dimensions A and B are held to maximum tolerance only to insure overall enclosure fit.
- Dimensions D and E are held to \pm tolerance to insure magnetic qualities under all applications.
- Window dimensions F and G are held to a minimum tolerance only to insure coil fit.

How to measure:

- Dimension D is measured by caliper at any point on either core half.
- Dimension E is measured at the butt joint.
- Dimensions F and G are measured at the shortest point but at least twice the radius R from the edge of the window.

E-Core



Electrical Guarantees

Quality grade	Quality code	Thickness, mm	Test conditions (3)		Guaranteed values for bonded, cut or uncut cores		
			Bm, T	f, Hz	W/kg (4)	VARm/kg (1)	VARg/kg (2)
Standard	ELA	0.30	1.7	50	2.4	9.90	$\frac{27 \times A_c}{\min}$ $W_{t, \min}$ (a=0.075mm)
Standard	ELH	0.10	1.5	400	26.4	28.60	$\frac{111 \times A_c}{\min}$ $W_{t, \min}$ (a=0.05mm)

1. VARm/kg - specific reactive power of metal.
2. VARg/kg - specific reactive power of air-gap, a = air-gap length
3. Test conditions based upon mono-phase excitation of center leg.
4. Values are 20% higher than for C-core because of third harmonic flux.

Core Dimensions List

For a complete table of E-Core dimensions list, see attached file below:

[E-Core listing metric standards.pdf](#)