

TOLERANCES

MAGNETIC TOLERANCE

Material (Mix No.)	-2	-8	-18	-26	-28	-33	-38	-40	-52
A _L Tolerance	±10%	±10%	±10%	±10%	±10%	±10%	±10%	±10%	±10%

The cores are manufactured to the A_L values listed; the permeability for each material is for reference only. In all cases, the A_L values are based on a peak AC flux density of 10 gauss (1 mT) at a frequency of 10 kHz. Measurements made under other conditions will produce results in accordance with the magnetic curves shown on page 15.

The toroidal cores are tested with an evenly-spaced full single-layer winding in order to minimize leakage effects. Iron powder cores tested with a small number of turns which are not evenly distributed will produce higher inductance readings than expected. The E Cores are tested with 100 turns.

The Magnetic Characteristic curves shown on pages 14-15 have a typical tolerance of ±10%. The curves on Core Loss characteristics have a typical tolerance of ±15%.

DIMENSIONAL TOLERANCE (inches)

TOROIDS*	OD	ID	Ht	TOROIDS*	OD	ID	Ht	
CA25 - CA38	±.015	±.015	±.015	CA150 - CA225	±.025	±.025	±.030	
CA44 - CA72**	±.020	±.020	±.020	CA249 - CA300	±.030	±.030	±.030	
CA80 - CA141	±.020	±.020	±.025					
*Tolerance includes coating		**OD for CA50-8/90 and CA50-8B/90 is +.025/-0.15				***Gap per piece		
E CORES	A	B	C	D	F	G	Max. Gap***	
E49 -E118	±.010	±.010	±.005	±.007	±.005	±.007	.0015	
E125 -E137	±.015	±.015	±.007	±.010	±.007	±.010	.0015	
E168	±.015	±.015	±.010	±.010	±.007	±.010	.0020	

TOROIDAL CORE

Material	Mix No.	Permeability	Color Code	Type of Coating	Temp. Coef. of Permeability (+ ppm/°C)
Iron Powder	0	0	White	EPOXY	0
Iron Powder	2	10	Gray #	EPOXY	95
Iron Powder	8	35	Gray / White#	EPOXY	255
Iron Powder	14	14	White / Gray	EPOXY	150
Iron Powder	18	55	Green#	EPOXY	385
Iron Powder	26	75	Yellow / White	EPOXY	825
Iron Powder	28	22	Gray / Green	EPOXY	415
Iron Powder	33	33	Gray / Yellow#	EPOXY	635
Iron Powder	34	33	Gray / Blue#	EPOXY	565
Iron Powder	38	85	White / Green	EPOXY	955
Iron Powder	40	60	Green / Yellow	EPOXY	950
Iron Powder	52	75	Green / Blue	EPOXY	650

#: 涂装颜色可依客户要求改变。