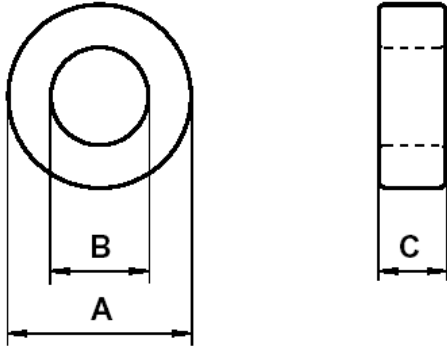




Specification for:  
**YC40603TC**

110 Delta Drive  
Pittsburgh, PA 15238  
Phone: 412/696-1333  
Fax: 412/696-0333  
Email: magnetics@spang.com

**DIMENSIONS**



(mm)	Uncoated Nominal:	Coated Min:	Coated Max:
O.D. (A)	5.84	5.48	6.20
I.D. (B)	3.05	2.69	3.41
Ht. (C)	3.18	2.85	3.51

Eff. Parameters		
$A_e$ mm <sup>2</sup>	$l_e$ mm	$V_e$ mm <sup>3</sup>
4.3	13	56

**INDUCTANCE**

$A_L$ value (nH/T <sup>2</sup> )	Test conditions	
372 ± 25%	10 kHz	0.5 mT (For N = 5, use 0.68 mA), 25°C

**ELECTRICAL LOSSES**

$\tan \delta / \mu_i$ max	$\tan \delta / \mu_i$ Typ	Test conditions	
$\leq 50 \cdot 10^{-6}$	$\leq 25 \cdot 10^{-6}$	300 kHz	0.5 mT, 25°C
$\leq 200 \cdot 10^{-6}$	$\leq 100 \cdot 10^{-6}$	1000 kHz	

**TEMPERATURE FACTOR**

$\alpha_F$	Test conditions
$2.0 \cdot 10^{-6}$ to $-5.0 \cdot 10^{-6}$ /°C	+20°C to +40°C
$2.0 \cdot 10^{-6}$ to $-2.0 \cdot 10^{-6}$ /°C	+40°C to +70°C

**COATING**

Parylene rated for 130°C continuous operation.
Voltage breakdown rating 1000 V <sub>DC</sub> Min Wire-to-Wire.