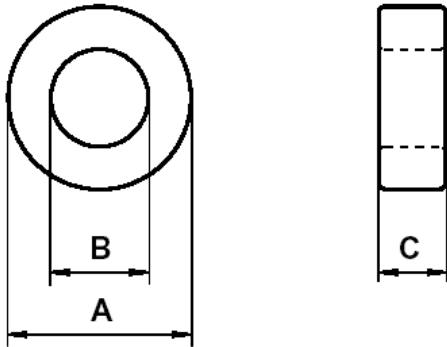




Specification for:  
**VR42507TC**

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)	25.34	25.24	26.64
I.D. (B)	15.45	14.15	15.35
Ht. (C)	7.66	7.66	8.66

Eff. Parameters		
$A_e$ mm <sup>2</sup>	$l_e$ mm	$V_e$ mm <sup>3</sup>
37.1	61.5	2284

**INDUCTANCE**

AL value (nH/T <sup>2</sup> )	Test conditions
1800 ± 25%	10 kHz, 0.5 mT (For N = 5, use 1.3 mA), 25°C

**CORE LOSSES**

$P_L$ max	Production lot limit Max avg	Test conditions
251 mW (110 mW/cm <sup>3</sup> )	228 mW (100 mW/cm <sup>3</sup> )	100 kHz, 100 mT, 100°C
1.63 W (715 mW/cm <sup>3</sup> )	1.48 W (650 mW/cm <sup>3</sup> )	100 kHz, 200 mT, 100°C

**COATING**

Nylon11 rated for 155°C continuous operation.
Voltage breakdown rating 2000 V Min Wire-to-Wire.

**NOTE**

Spec. Modifications	Previous	Revised
2005.06.09	Bare Nom OD = 25.4 Bare Nom ID = 15.5 Bare Nom Ht = 7.92 OD Max = 26.29 ID Min = 14.6 Ht Max = 8.56 Losses: General R material Breakdown voltage > 1,000 V P/N prefix for coating = Z (nylon or epoxy)	Bare Nom OD = 25.34 Bare Nom ID = 15.45 Bare Nom Ht = 7.66 OD Max = 26.64 ID Min = 14.15 Ht Max = 8.66 Losses: Detail as indicated Breakdown voltage > 2,000 V P/N prefix for coating = V (nylon specified)