

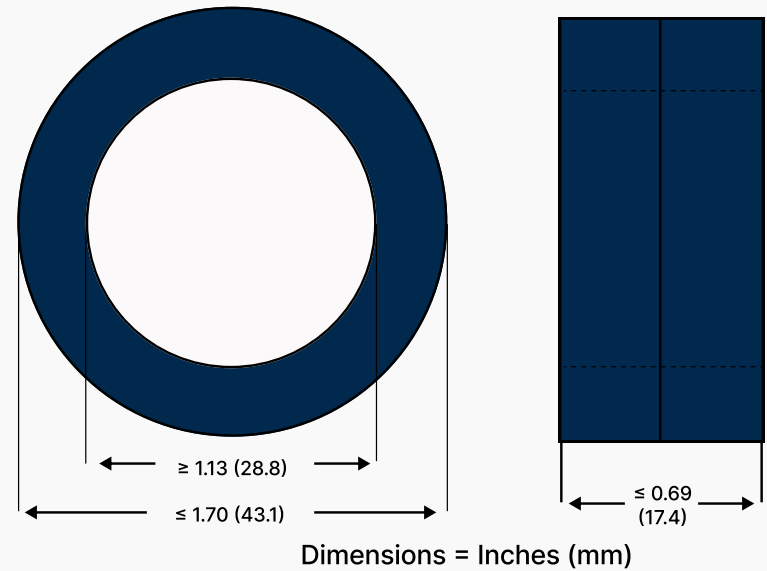
# DMAX29HP41-102

## Product Specification For Differential Mode Chokes



### Mechanical Specification

|                       |                                           |
|-----------------------|-------------------------------------------|
| Bare Core Dimensions: | 1.57 × 1.26 × 0.59 inch (40 × 32 × 15 mm) |
| Le:                   | 11.26 cm                                  |
| Ae:                   | 0.47 cm <sup>2</sup>                      |
| Weight:               | 0.09 lbs (40 grams)                       |
| Packing:              | 24 Pc/Layer, 5 Layers/Box                 |
| Box Quantity:         | 120 Pieces                                |
| Core Material:        | Nanocrystalline                           |
| Currie Temp:          | 1,112°F (600 °C)                          |
| RTI Temp (0.81):      | 248°F (120°C)                             |
| Marking:              | DMAX29HP41-102                            |



### Electrical Performance Parameters

Permeability @ Frequency = 10 KHz and Hpeak = 3.14 mA/cm  
~90,000

### Inspection Value

|                          |                   |                   |
|--------------------------|-------------------|-------------------|
| Measured Value:          | $A_L (\mu H/N^2)$ | $A_L (\mu H/N^2)$ |
| Measurement Limits:      | 33.0 - 66.0       | 8.4 min           |
| Frequency:               | 10 KHz            | 100 KHz           |
| $L_{eff} * N$ (mA*turn): | 25                | 25                |

### Core Finishing

|                   |              |                             |               |              |               |             |
|-------------------|--------------|-----------------------------|---------------|--------------|---------------|-------------|
| Type:             | Plastic Case | Case Material Alternatives: | Zytel FR70G25 | Rynite FR530 | Longlite 4130 | PA66-R11G25 |
| Voltage Breakdown | 2,500 VRMS   | Case UL File Number:        | E41938        | E41938       | E59481        | E484599     |

\*Saturation Current (Isat) Of Nanocrystalline Material: Peak Value Of The Exiting Current When The Initial Inductance Level Is Dropped To 10 Per Cent. Saturation Behaviour Is Dependant On Frequency, Signal Shape And Leakage Field. The Current Value Is A Calculated Value For Design Help Only And Cannot Be Guaranteed. Isat Is Calculated

@ B = 1.0 T -  $\mu_{nom}$  - N = 1.

### Certification

| Rev # | Date       | Description            | Drawing Approval      | Drawing Number |
|-------|------------|------------------------|-----------------------|----------------|
| -     | -          | Initial Issue          | Engineering: V. Saini | DMAX29HP41-102 |
| 00    | 20/01/2026 | Issued For Procurement | Sales: Mujeeb Khan    |                |

Voxbourne Energy Certifies That The Manufacturing And The Quality Process Meet All Requirements Of IEC Part 1: General Specification For "Fixed Inductors For Electromagnetic Interference Suppression", IEC 60938-1:1999 + A1:2006. This International Standard Is Used In Lieu Of Requirements/Documents Pertaining To UL, CE, CSA, DIN And Other Individual Agencies. The Flame Insulation Rating Meets UL-94V-0. Voxbourne Energy Certifies The Product Described Herein Is In Compliance With The Directive 2011/65/EU Of The European Parliament And Of The Council Of 8 June, 2011 On The Restriction Of The Use Of Certain Hazardous Substances In Electrical And Electronic Equipment (RoHS2 Directive).