

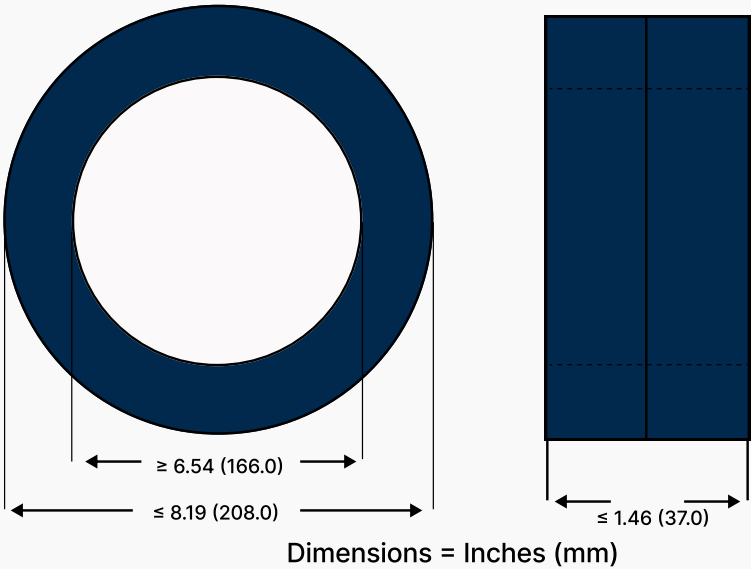
CMAXR166HP429-1631A16

Product Specification For Common Mode Chokes



Mechanical Specification

Bare Core Dimensions:	7.87 × 6.89 × 1.18 inch (200 × 175 × 30mm)
Le:	57.96 cm
Ae:	2.72 cm²
Weight:	2.87 lbs (1300 grams)
Packing:	1 Pc/Layer, 2 Layers/Box
Box Quantity:	2 Pieces
Core Material:	Nanocrystalline
Currie Temp:	1,112°F (600 °C)
RTI Temp (0.81):	248°F (120°C)
Marking:	CMAXR166HP429-1631A16



Electrical Performance Parameters

Permeability @ Frequency = 10 KHz and Hpeak = 3.13 mA/cm
~30,000

Inspection Value

Measured Value:	$A_L (\mu H/N^2)$	$A_L (\mu H/N^2)$
Measurement Limits:	12.3 - 24.6	6.0 min.
Frequency:	10 KHz	100 KHz
$I_{eff} * N$ (mA*turn):	130	130
Maximum Asymmetric Current I_{sat}^* (Sum Peak Current): 15.5 Amp		

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 - μ_{nom} - N = 1.

Certification

Rev #	Date	Description	Drawing Approval	Drawing Number
-	-	Initial Issue	Engineering: V. Saini	CMAXR166HP429-1631A16
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).