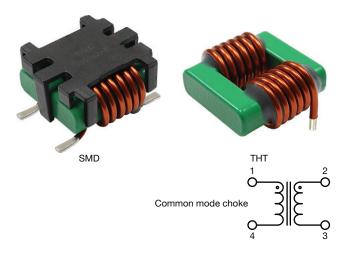
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Vishay Dale

# Common Mode Choke, High Current, High Voltage 1.5 kV, Temperature 150 °C



### **LINKS TO ADDITIONAL RESOURCES**



### **MATERIAL SPECIFICATIONS**

· Core: ferrite

• Wire: enameled copper

· Pick and place clip: glass fiber enhanced plastic polymer

• Terminal plating: solder dipped tin alloy (Sn99Ag0.3Cu0.7)

### **FEATURES**

- High current common mode choke with SMD and THT terminal options
- Pb-free

 Compatible with automated pick and place assembly (SMD design only. THT termination does not include pick and place clip) ROHS
COMPLIANT
HALOGEN
FREE
GREEN

(5-2008)

- High temperature operation up to 150 °C
- Inductance range from 70 μH to 480 μH (current rating up to 20 A)
- Designed to filter common mode noise from 500 kHz to 10 MHz (up to 5  $k\Omega$  impedance)
- Dielectric withstand voltage rated to 1500 V<sub>DC</sub> between coils
- Customizable for inductance, impedance, DCR and current rating
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

## **APPLICATIONS**

- · High current and high temperature applications
- DC/DC converters
- EMI Filters
- Motor noise suppression

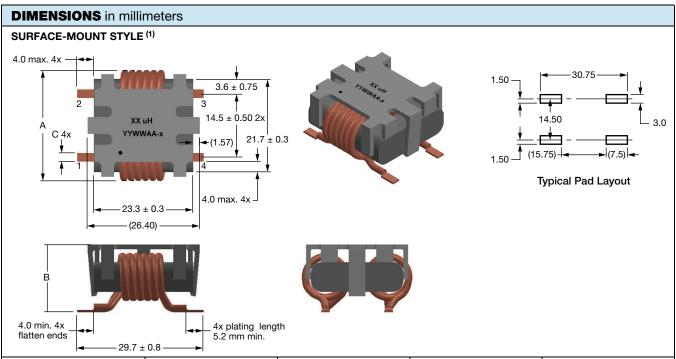
STANDARD ELECTRICAL SPECIFICATIONS										
	L <sub>0</sub>	DCR TYP.	DCR MAX.	COMMON MODE IMPEDANCE ± 30 % TYP.	COMMON MODE IMPEDANCE ± 30 % TYP.	COMMON MODE IMPEDANCE ± 30 % TYP.	RAT CUR DC	EAT TING RENT TYP.	LEAKAGE	
PART NUMBER	AT 0 A, REF. (µH)	25 °C (mΩ)	25 °C (mΩ)	AT 1 MHz (Ω)	AT 10 MHz (Ω)	AT 100 MHz (Ω)	40 °C RISE	100 °C RISE	MAX. (μΗ)	MOUNT
ICMS2321AGEG700N10	70	1.3	1.5	540	345	220	20	30	1.7	SMD
ICMS2321ABEH700N10	70	1.2	1.3	540	345	220	20	30	1.7	THT
ICMS2321AGEG101N10	100	1.9	2.1	780	600	240	18	26	2.4	SMD
ICMS2321ABEH101N10	100	1.6	1.8	780	600	240	18	26	2.4	THT
ICMS2321AGEG281N10	280	6.6	7.4	2240	1230	380	10	15	6.7	SMD
ICMS2321ABEH281N10	280	6.2	7.0	2240	1230	380	10	15	6.7	THT
ICMS2321AGEG481N10	480	13.4	15.0	3790	1920	410	7	10	11.5	SMD
ICMS2321ABEH481N10	480	12.4	13.9	3790	1920	410	7	10	11.5	THT

#### Notes

- All test data is referenced to 25 °C ambient
- Inductance and impedance test condition: 100 kHz, 0.25 V
- Operating temperature range -40 °C to +150 °C
- Dielectric withstand voltage (DWV) rating:
  - Core to coil: 500  $V_{DC}$ , 1 mA max., 2 s
  - Coil to coil: 1500  $V_{DC},\,1$  mA max., 2 s
- (1) DC current (A) that will cause an approximate ΔT of 40 °C and 100 °C, respectively

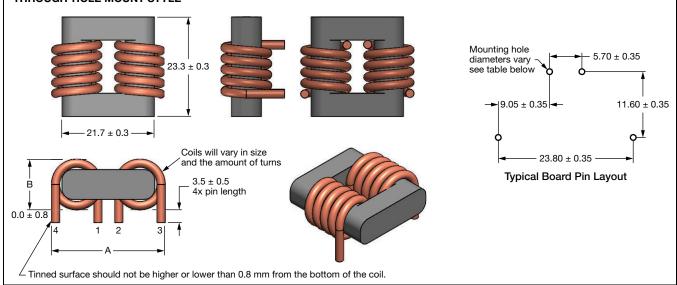


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PART NUMBER	A MAX.	B MAX.	C ± 0.2 mm	WEIGHT (g)
ICMS2321AGEG700N10	27.7	17.5	2.2	17.3
ICMS2321AGEG101N10	27.3	17.2	2.2	26.1
ICMS2321AGEG281N10	26.1	15.65	1.5	19.6
ICMS2321AGEG481N10	25.8	15.5	1.5	17.1

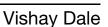
## THROUGH-HOLE MOUNT STYLE



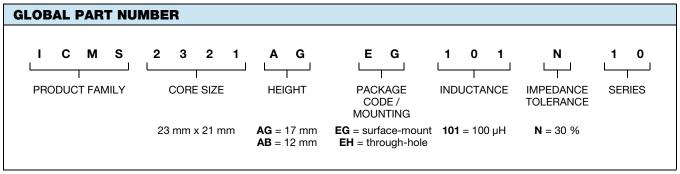
PART NUMBER	A MAX.	В МАХ.	MOUNTING HOLE DIAMETER	WEIGHT (g)
ICMS2321ABEH700N10	27.7	12.6	2.12	16.0
ICMS2321ABEH101N10	27.3	12.3	1.93	24.8
ICMS2321ABEH281N10	26.1	11.25	1.32	18.3
ICMS2321ABEH481N10	25.8	10.75	1.113	15.8

#### Note

<sup>(1)</sup> Coplanarity of four terminals = 0.15 mm max.

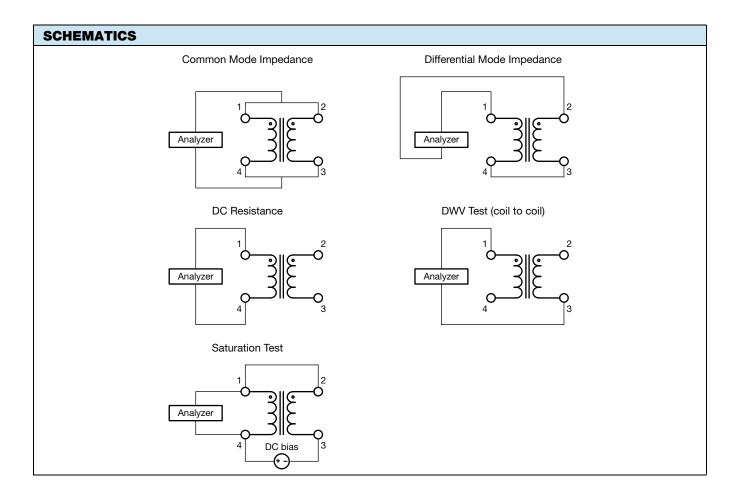




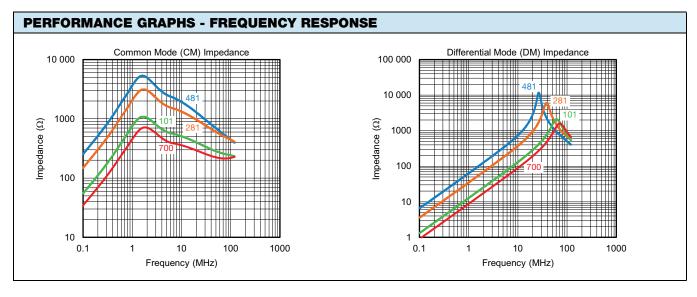


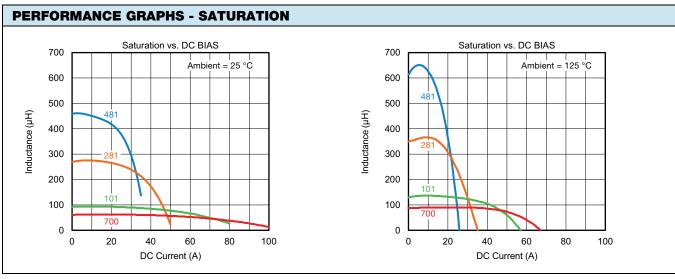
#### Note

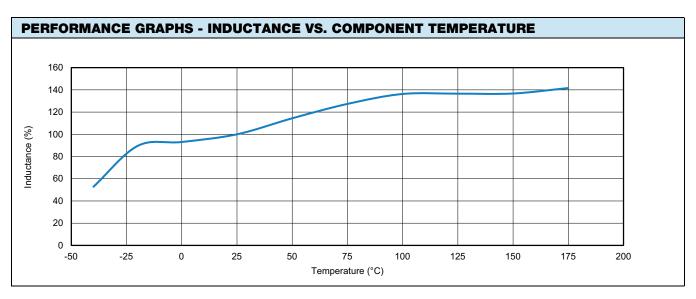
- Packaging type: tray
- For additional packaging details see "Packaging Methods"



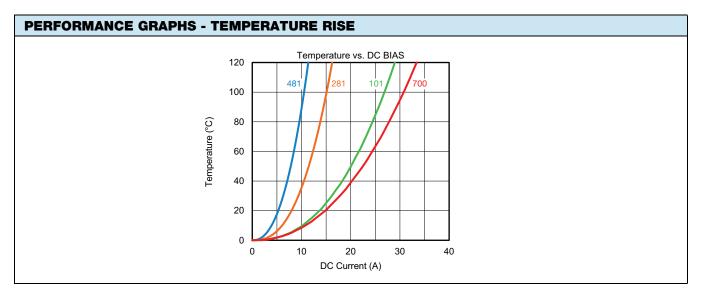


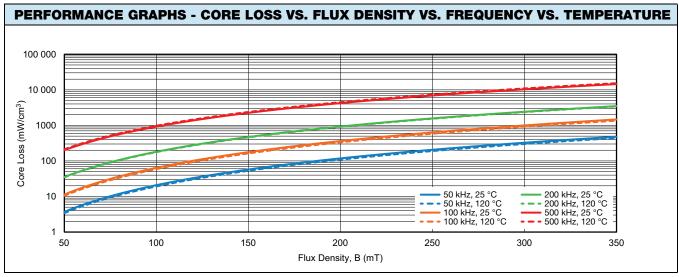














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