

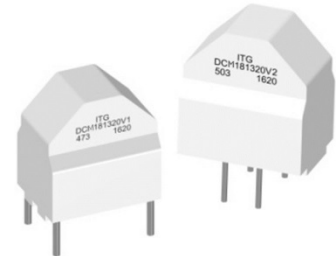


# DCM181320V Series



## 1. Features of DCM181320V Series :

- 18.5×13.5mm Max.(L×W), 20.5mm Max. Height.
- Inductance range: 0.70mH~39.0mH, Custom values are welcomed.
- Ideally used as AC common mode noise filter for TV, VCR, switch mode power supply, inverter, industrial equipment, attenuation and control unit with better characteristics in low frequency band.
- Dielectric strength: 1500Vrms, winding to winding.
- UL Class B Compliant Common Mode Chokes.
- Two PCB Layouts (V1 & V2) for customer consideration.
- Operating temperature: -55 to +130°C. RoHS & HF compliant.



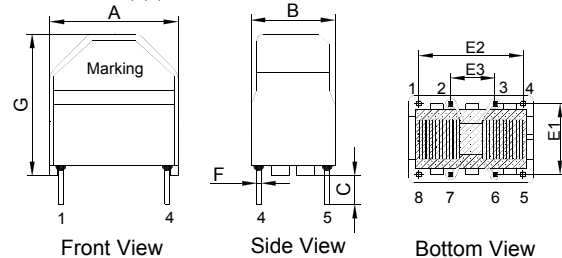
## 2. Electrical Characteristics of DCM181320V Series:

ITG Part Number	L (mH) ±30%	Irate (A) Max	DCR (Ω) Max	U <sub>R</sub> (Vac) Max
DCM181320Vx-701NHF	0.7	5.0	0.027	250.0
DCM181320Vx-102NHF	1.0	2.5	0.055	250.0
DCM181320Vx-222NHF	2.2	2.0	0.090	250.0
DCM181320Vx-332NHF	3.3	1.5	0.140	250.0
DCM181320Vx-682NHF	6.8	1.2	0.280	250.0
DCM181320Vx-103NHF	10.0	0.7	0.500	250.0
DCM181320Vx-153NHF	15.0	0.5	0.780	250.0
DCM181320Vx-273NHF	27.0	0.4	1.200	250.0
DCM181320Vx-393NHF	39.0	0.3	1.700	250.0

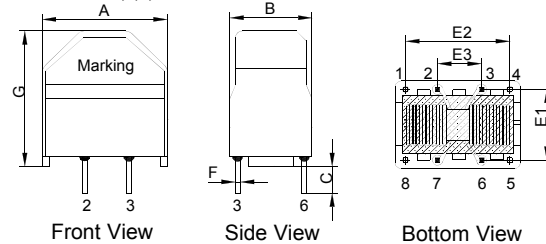
## 3. Mechanical Dimensions (unit:mm):

A Max	B Max	C ±0.5	E1 ±0.5	E2 ±0.5	E3 ±0.5	F Typical	G Max
18.50	13.50	3.00	10.00	15.00	5.00	0.64x0.64	20.50

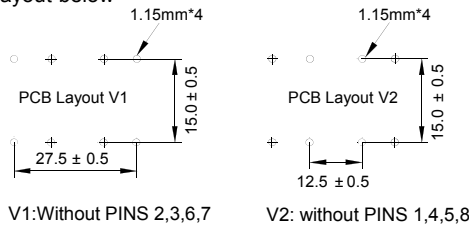
V1: Without PINS 2,3,6,7



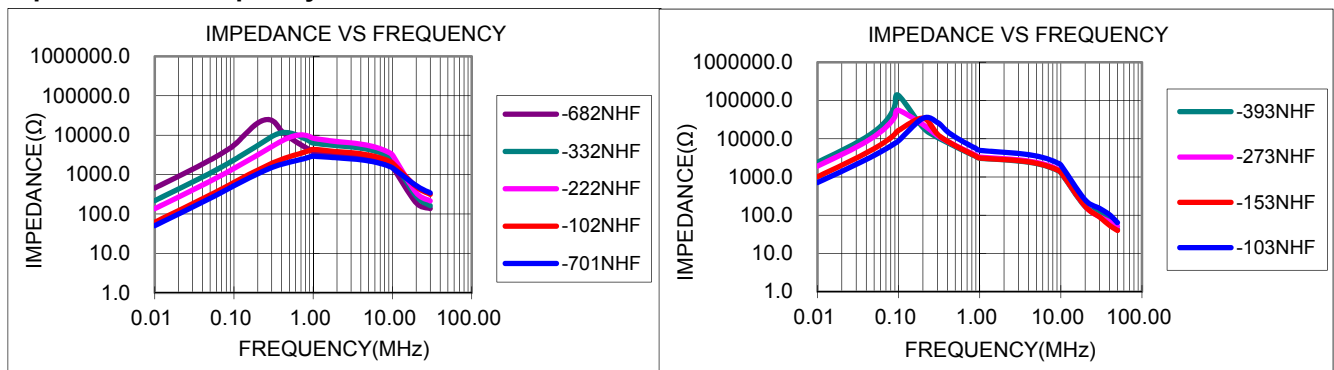
V2: without PINS 1,4,5,8



X – denotes PCB layout below



## 4. Impedance vs Frequency Curve of DCM181320V Series:



### Test Condition:

1. Open Circuit Inductance (OCL) measured at 10KHz, 0.05Vrms, 0 Amp at 25°C
2. Irate is defined as the applied current level that cause 35 °C temperature rise without force air flow
3. Impedance measures with both windings in parallel and at ambient temperature (25°C)

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\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.