SMD LAN Inductor for Capacitive Type LAN Module DCM321620F2SO-600T02-1R1

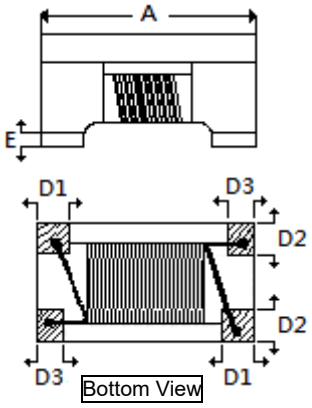
1. Features

1. High common mode impedance at high frequency effects excellent noise suppression performance.
2. DCM321620F2SO series realizes small size and low profile.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Operating temperature-40~+105℃(Including self - temperature rise).

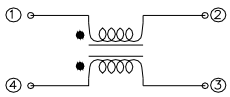
Halogen-free

RoHS

2. Dimension

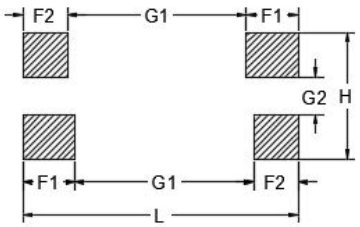


Bottom View



Schematic Diagram

Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	D3(mm)	E(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)	F1(mm)	F2(mm)
321620F2SO	3.40±0.20	1.60±0.20	2.20±0.20	0.64±0.10	0.58±0.10	0.54±0.10	0.12 (typ.)	3.70	1.70	2.40	0.50	0.70	0.60

Units: mm

3. Part Numbering

DCM	321620	F	2	S	O	-	600	T	02	-	1R1
A	B	C	D	E	F		G	H	I		J

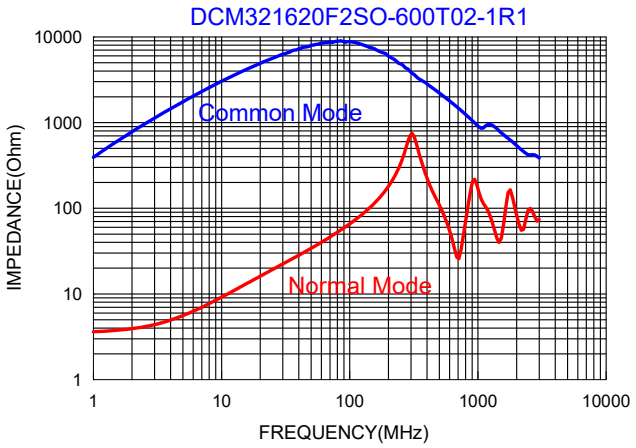
A: Series
B: Dimension
C: Material Ferrite Core
D: Number of Lines 2=2 lines
E: Type S=Shielded, N=Unshielded
F: Category Code Industrial Grade
G: Inductance 600=60uH
H: Packaging T=Taping and Reel
I : Rated Current 02=200mA
J: DCR 1R1=1.1(Ω)

4. Specification

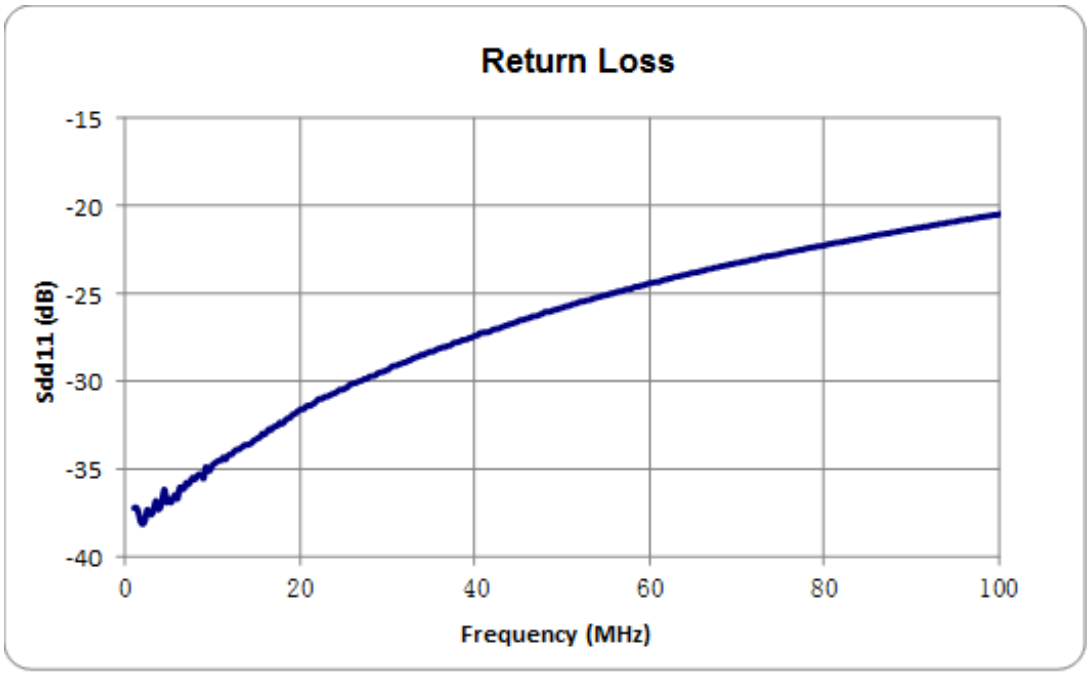
TAI-TECH Part Number	Inductance(uH) [100kHz/0.1V] min.	Capacitance (pF) max.	Insertion loss 1-100MHz (dB)	Return loss 1-100MHz (dB)	DCR (Ω)max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	Insulation Resistance (Ω) min.
DCM321620F2SO-600T02-1R1	60	14	-0.7 typ.	-20 typ.	1.1	200	50	125	10M

Note:

- All test data referenced to 25℃ ambient.
- IEC 61000-4-5 Surge 10/700us 1.5KV (Differential mode)

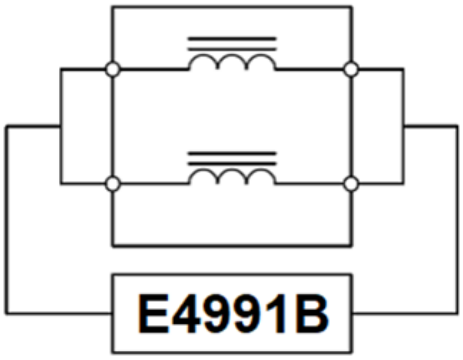

DCM321620F2SO-600T02-1R1
Common Mode
Normal Mode
IMPEDANCE(Ohm)
FREQUENCY(MHz)
10000
1000
100
10
1
1
10
100
1000
10000


Insertion Loss
Sdd21 (dB)
Frequency (MHz)
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
-0.9
-1
0
20
40
60
80
100


Return Loss
Sdd11 (dB)
Frequency (MHz)
-15
-20
-25
-30
-35
-40
0
20
40
60
80
100

5. MEASURING CIRCUITS 2LINE

Common mode



Differential mode

