Wire Wound Type Common Mode Filter

ACM3225F2RO-SERIES-T

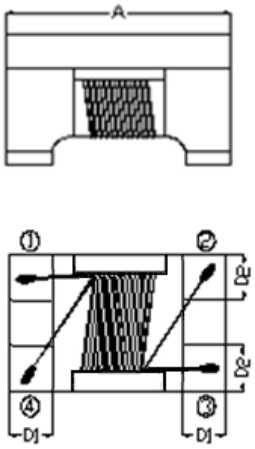
1. Features

1. High common mode impedance at high frequency effects excellent noise suppression performance.
2. ACM3225F2R series realizes small size and low profile 3.2x2.5x2.5 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Compliant with OPEN Alliance 1000Base-T1 of Ethernet standard.
5. Operating temperature -40~+125℃(Including self - temperature rise).

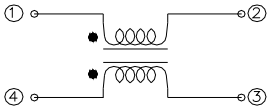
Halogen-free

RoHS

2. Dimension

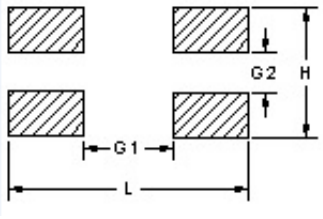


Bottom View



Schematic Diagram

Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
3225F2R	3.30±0.20	2.50±0.20	2.50 max	0.55±0.15	1.00±0.20	3.70	2.80	2.40	0.60

Units: mm

3. Part Numbering

ACM	3225	F	2	R	O	-	800	T	01	-	T
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 — JRC8G
F: Category Code — Industrial Grade
G: Inductance — 800=80(μH)
H: Packaging — T=Taping and Reel
I : Rated Current — 01=100mA
J: Twist

4. Specification

TAI-TECH Part Number	Inductance (μH) [100kHz / 0.1V]		DCR (Ω)±20%	Insertion loss (Sdd21) (max.)				Return Loss (Sdd11) (min.) (Z OUT=100Ω±1%)		
				10MHz	20MHz	100MHz	400MHz	10MHz	80MHz	600MHz
	80+50%/-30%	100.(typ.)	2.60	-0.5 dB	-0.5 dB	-0.8 dB	-1.5 dB	-25 dB	-25 dB	-14.5 dB

	Common To Common-Mode Rejection(Scc21) (min.)				Common To Differential-Mode Rejection(Sds21) (min.)			Current Rating (mA) max.	Rated voltage (Vdc) max.	Insulation Resistance (MΩ) min.
ACM3225F2RO-800T01-T	10MHz	30MHz	200MHz	600MHz	10MHz	80MHz	600MHz			
	-32.5 dB	-42 dB	-42 dB	-32.5 dB	-65 dB	-65 dB	-47.5 dB	100	80	10

Note:

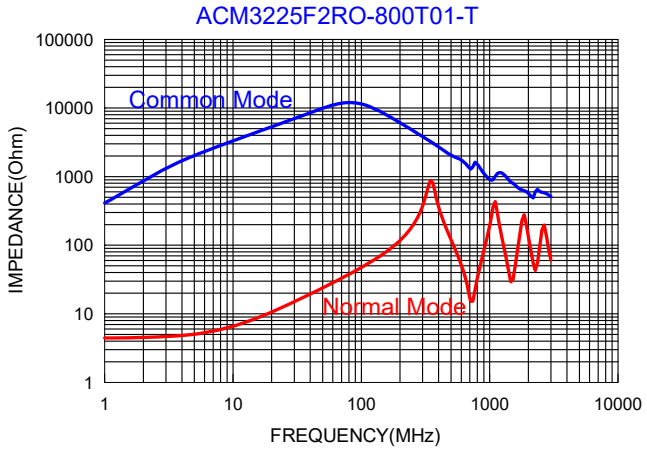
- All test data referenced to 25℃ ambient.

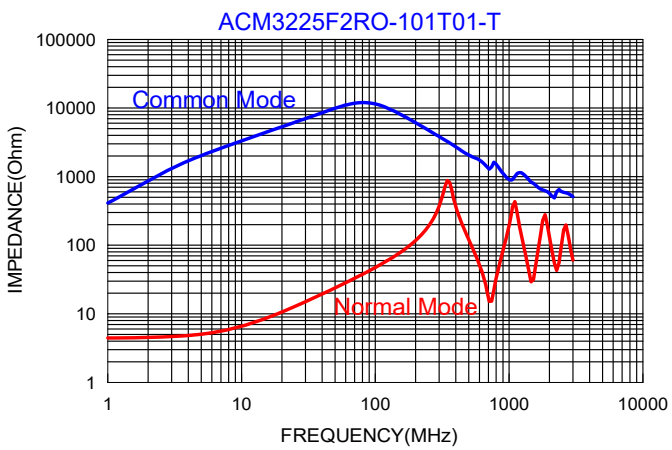
TAI-TECH Part Number	Inductance (μH)		DCR (Ω)±20%.	Insertion loss (Sdd21) (max.)				Return Loss (Sdd11) (min.) (Z OUT=100Ω±1%)		
	100kHz/0.5V	100kHz/0.1V		10MHz	20MHz	100MHz	400MHz	10MHz	80MHz	600MHz
	100.(typ.)	80 +50%/-30%	2.60	-0.5 dB	-0.5 dB	-0.8 dB	-1.5 dB	-25 dB	-25 dB	-14.5 dB

	Common To Common-Mode Rejection(Scc21) (min.)				Common To Differential-Mode Rejection(Sds21) (min.)			Current Rating (mA) max.	Rated voltage (Vdc) max.	Insulation Resistance (MΩ) min.
ACM3225F2RO-101T01-T	10MHz	30MHz	200MHz	600MHz	10MHz	80MHz	600MHz			
	-32.5 dB	-42 dB	-42 dB	-32.5 dB	-65 dB	-65 dB	-47.5 dB	100	80	10

Note:

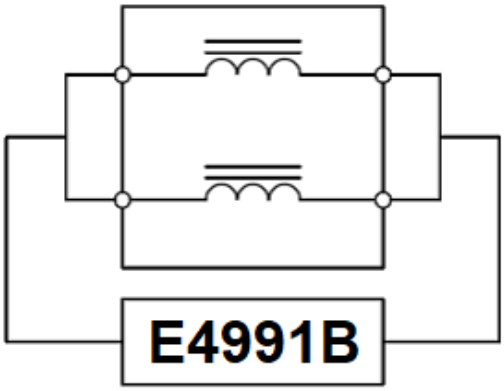
- All test data referenced to 25℃ ambient.





5. MEASURING CIRCUITS 2LINE

Common mode



Differential mode

