Wire Wound Type Common Mode Filter

ACM4532F2NO-SERIES-T

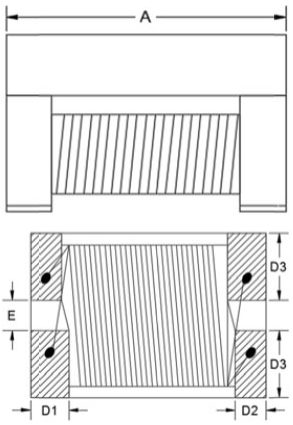
1. Features

1. 1000BASE-T1 common mode choke.
2. ACM4532F2N series realizes small size and low profile. 4.5x3.2x2.8 mm.
3. 100% Lead (Pb) & Halogen-Free and RoHS compliant.
4. Operating temperature-40~+125℃(Including self - temperature rise).

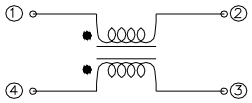
Halogen-free

RoHS

2. Dimension

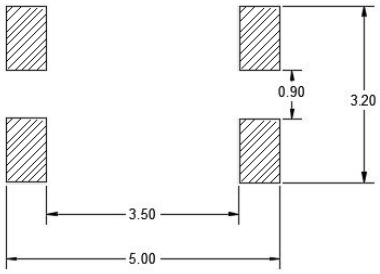


Bottom View



Schematic Diagram

Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	D3(mm)	E(mm)
ACM4532F2N	4.60±0.20	3.20±0.20	2.90±0.15	0.75±0.20	0.60±0.20	1.30±0.20	0.6±0.20

3. Part Numbering

ACM	4532	F	2	N	O	-	101	-	T
A	B	C	D	E	F		G		H

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 101=100uH
H: Twist

4. Specification

TAI-TECH Part Number	Inductance (μH)Typ. [100kHz/0.1V]	DC Resistance (Ω) max.	Insertion loss (Sdd21) max.		Return Loss (Sdd11) (min.) (Z OUT=100Ω±1%)		
			10-100MHz	100-400MHz	30-80MHz	200MHz	400MHz
	100	4.2	-1.0 dB	-1.7 dB	-22 dB	-17 dB	-15 dB

	Common To Common-Mode Rejection(Scc21) (min.)				Common To Differential-Mode Rejection(Sds21) (min.)				Current Rating (mA) max.	Turns Ratio and Polarity
	30-80MHz	200MHz	400MHz	1000MHz	10-30MHz	100MHz	200MHz	1000MHz		
ACM4532F2NO-101-T	-45 dB	-35 dB	-32 dB	-25 dB	-60 dB	-47 dB	-40 dB	-38 dB	100	1.00±2%,PER SCHEMATIC

TAI-TECH Part Number	Inductance (μH)Typ. [100kHz/0.1V]	DC Resistance (Ω) max.	Insertion loss (Sdd21) max.		Return Loss (Sdd11) (min.) (Z OUT=100Ω±1%)		
			100 kHz	1-60 MHz	1-10MHz	30MHz	60MHz
	160	5.0	-0.5 dB	-1.0 dB	-26 dB	-21.1 dB	-18 dB

	Common To Common-Mode Rejection (Scc21) (min.)				Common To Differential-Mode Rejection(Sds21) (min.)			Current Rating (mA) max.	Turns Ratio and Polarity
	1 MHz	10-100MHz	400MHz	1000MHz	1-10MHz	100MHz	1000MHz		
ACM4532F2NO-161-T	-23 dB	-42 dB	-25 dB	-15 dB	-70 dB	-50 dB	-24 dB	100	1.00±2%,PER SCHEMATIC

Note:

- All test data referenced to 25℃ ambient.

5. MEASURING CIRCUITS 2LINE

