

Wire Wound Type Common Mode Filter

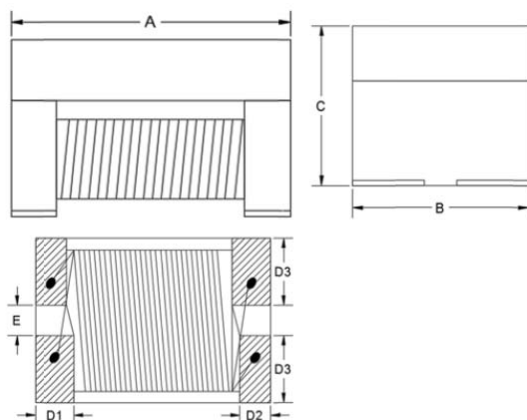
ACM4532F2NV-SERIES-T

1. Features

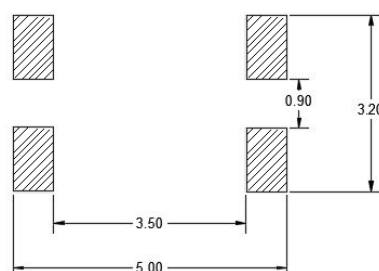
- 1000BASE-T1 common mode choke.
- ACM4532F2N series realizes small size and low profile. 4.5x3.2x2.8 mm.
- 100% Lead (Pb) & Halogen-Free and RoHS compliant.
- High reliability -Reliability tests comply with AEC-Q200
- Operating temperature-40~+125℃ (Including self - temperature rise)



2. Dimension



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	V	-	101	-	T
A	B	C	D	E	F		G		H

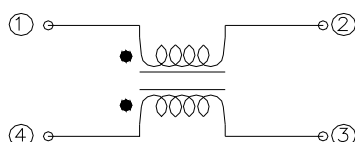
A: Series
 B: Dimension
 C: Material Ferrite Core
 D: Number of Lines 2=2 lines
 E: Type S=Shielded , N=Unshielded
 F: Category Code V=Vehicle
 G: Inductance 101=100uH
 H: Twist

4. Specification

TAI-TECH Part Number	Inductance (μ H)Typ. [100kHz/0.1V]	DC Resistance (Ω) max.	Insertion loss (Sdd21) Max		Return Loss (Sdd11) (Min) (Z OUT=100 Ω ±1%)					
			10-100MHz	100-400MHz	30-80MHz	200MHz	400MHz			
		100	4.2	-1.0 dB	-1.7 dB	-22 dB	-17 dB	-15 dB		
ACM4532F2NV-101-T	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		
	-45 dB	-35 dB	-32 dB	-25 dB	-60 dB	-47 dB	-40 dB	-38 dB	100	1.00±2%,PER SCHEMATIC

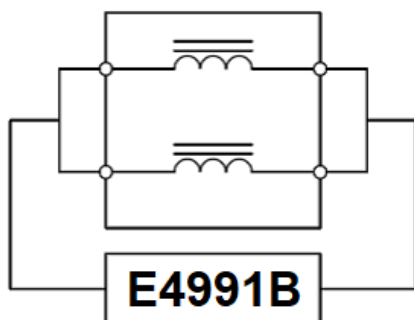
TAI-TECH Part Number	Inductance (μ H)Typ. [100kHz/0.1V]		DC Resistance (Ω) max.		Insertion loss (Sdd21) Max			Return Loss (Sdd11) (Min) (Z OUT=100 Ω ±1%)		
					100 KHz	1-60 MHz		1-10MHz	30MHz	60MHz
	160	5.0				-0.5 dB	-1.0 dB		-26 dB	-21.1 dB
ACM4532F2NV-161-T	Common To Common- Mode Rejection (Scc21) (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			
	-23 dB	-42 dB	-25 dB	-15 dB	-70 dB	-50 dB	-24 dB	100	1.00±2%,PER SCHEMATIC	

5. Schematic Diagram



6. MEASURING CIRCUITS 2LINE

Common mode



Differential mode

