

# Wire Wound Type Common Mode Filter

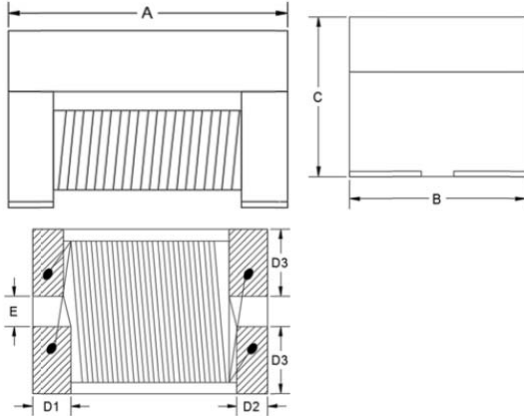
ACM4532F2NV-SERIES-T

## 1. Features

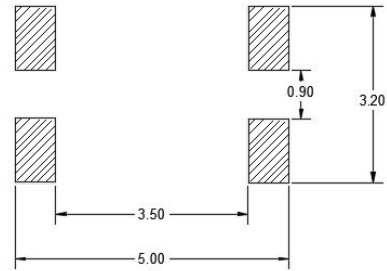
- 1000BASE-T1 common mode choke.
- ACM4532F2N series realizes small size and low profile. 4.5x3.2x2.8 mm.
- 100% Lead (Pb) & Halogen-Free and RoHS compliant.
- High reliability -Reliability tests comply with AEC-Q200
- Operating temperature-40~+125°C (Including self - temperature rise)



## 2. Dimension

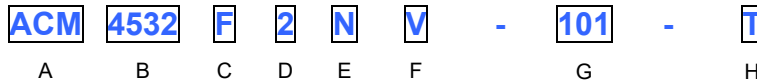


Recommended PC Board Pattern



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



- 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 (μH)Typ. [100kHz/0.1V]	DC Resistance (Ω) max.	Insertion loss Max				Return Loss (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			
ACM4532F2NV-101-T	Common To Common-Mode Rejection (Min)				Common To Differential-Mode Rejection (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 ( $\mu$ H)Typ. [100kHz/0.1V]	DC Resistance ( $\Omega$ ) max.	Insertion loss Max		Return Loss (Min) (Z OUT=100 $\Omega$ ±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
ACM4532F2NV-161-T	Common To Common- Mode Rejection (Min)				Common To Differential- Mode Rejection (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

