

Wire Wound Chip Common Mode Choke Coil

ACML-F Series

Operating Temp. : -40°C~+125°C

FEATURES:

- ⊙ Winding type realizes small size and low profile.
- ⊙ Prevention of common mode noise at high frequency.
- ⊙ AEC-Q200 verified.

APPLICATIONS:

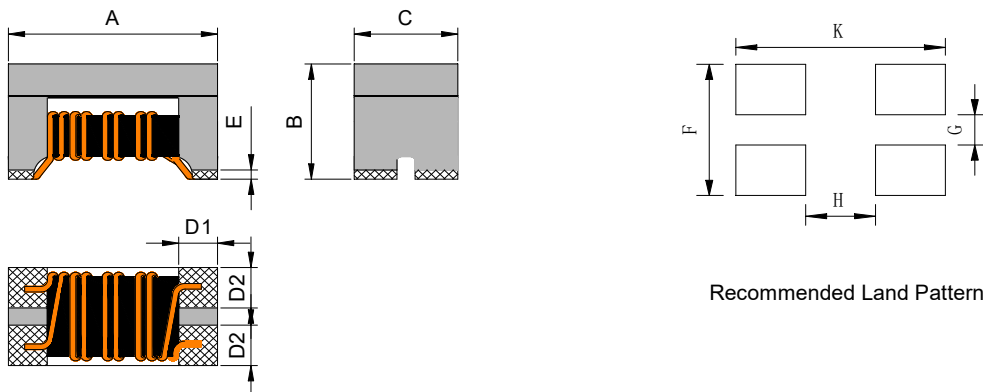
- ⊙ For automotive CAN-FD system.

PART NUMBERING SYSTEM:

ACML 4532 F - 101 - 2P - T
 ① ② ③ ④ ⑤ ⑥

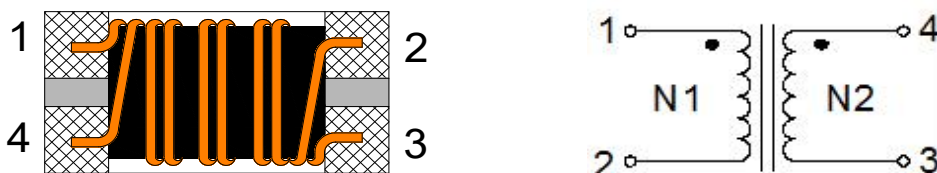
- ①: Automobile Type
- ②: External Dimensions (L*W:4.5*3.2mm)
- ③: CAN FD
- ④: Inductance Value (101 = 100uH)
- ⑤: Number of line : 2
- ⑥: Packaging : T=Tape and reel

SHAPES AND DIMENSIONS: (Unit:mm)



SERIES	A	B	C	D1	D2	E	F	G	H	K
ACML3225F	3.2±0.2	2.5Max	2.5±0.2	0.8 Ref	0.8Ref	0.25Max	3.5Ref	0.6Ref	1.6 Ref	4.1Ref
ACML4532F	4.5±0.2	2.6±0.2	3.2±0.2	0.75 Ref	0.75Ref	0.5 Max	3.4Ref	1.6 Ref	2.9 Ref	5.5 Ref

SCHEMATIC:



ACML3225F Series

SPECIFICATION TABLE:

Part No.	Inductance (uH)	Test Frequency (KHz)/0.1V	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (MΩ) Min.
ACML3225F-510-2P-T	51+50%/-30%	100	0.70	200	80	10
ACML3225F-101-2P-T	100+50%/-30%	100	2.50	150	80	10

ACML4532F Series

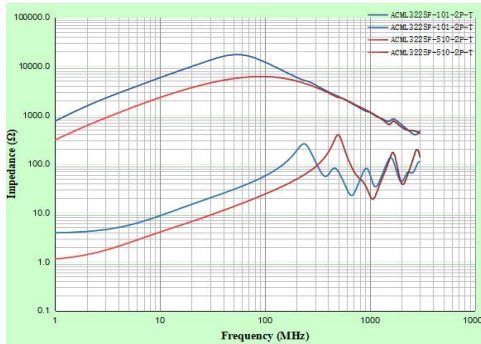
Part No.	Inductance (uH)	Test Frequency (KHz)/0.1V	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (MΩ) Min.
ACML4532F-101-2P-T	100+50%/-30%	100	2.0	200	50	10

- ⊙ Operating temperature range :-40°C ~ 125°C (Including self - temperature rise)
- ⊙ Storage temperature range (packaging conditions): -10°C ~ 40°C RH 70% (Max.)
- ⊙ Rated Current (Irms)

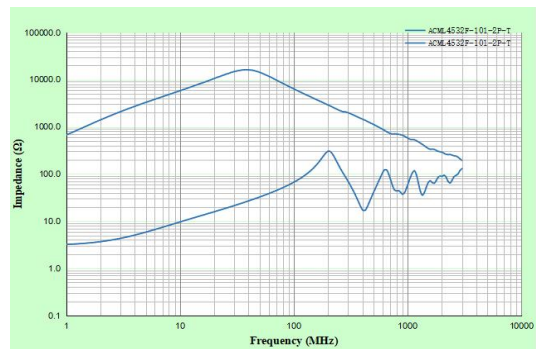
Irms is direct electric current as chip surface temperature rose just 20°C or 40°C against chip initial surface temperature (Ta); Temperature rise: Rated Current < 1A ΔT 20°C Max, Rated Current ≥ 1A ΔT 40°C Max

Impedance Vs Frequency Curve

TYPICAL ELECTRICAL CHARACTERISTICS:



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ACML4532F Series