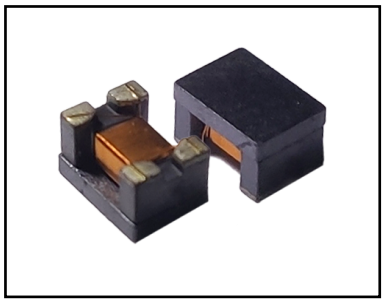
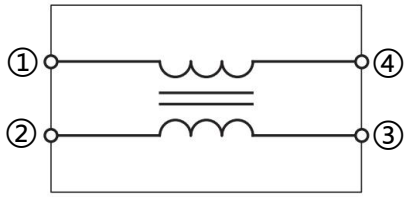
Desicription

- The common mode filter is mainly used to reduce radiation and high frequency common mode noise.
- Reduce asymmetric interference on data lines and other interfaces.
- Impedance characteristics match the impedance of most differential interface Settings, controlling unnecessary reflection formation.
- Low leakage, no effect on differential mode current.
- AEC-Q200.



Features

- Size:4.5mm*3.2mm*2.8mm.
- Halogen free ,Lead free ,Reach and RoHs.
- Operating temperature : -40 to +125℃
- Storage temp. and humidity : -40 to +85℃ ,70%RH max



Circuit Diagram

Application

- Automotive Ethernet based on 1000Base-T1

PIN NUMBER	DESCRIPTION
① ~ ④	DATE LINE
② ~ ③	DATE LINE

Order information

Model	Package	shipping
CMF4532WAC510HFR	**4532**	**500/Tape&Reel**

Part Numbering

CMF	4532	W	A	C	510	H	F	R
A	B	C	D	E	F	G	H	I

A:ASIM common mode filter

B:Dimension

C:Wire wound

D:The internal serial number

E:Car level

F:Inductance

G:Tolerance +50%/-30%

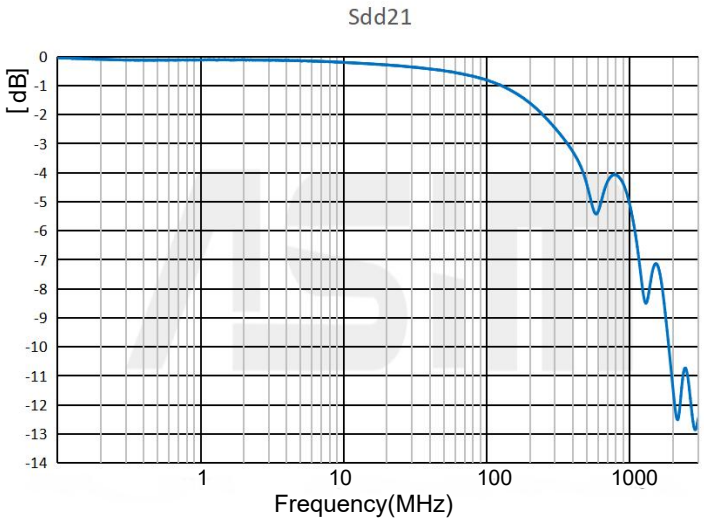
H:Internal series

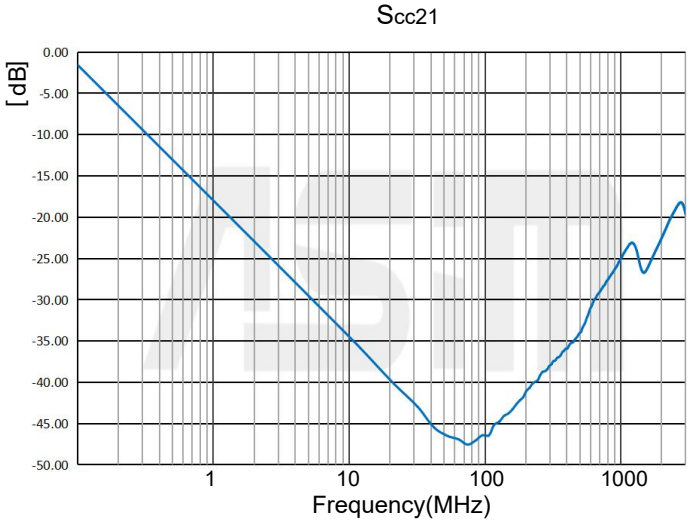
I:Tape

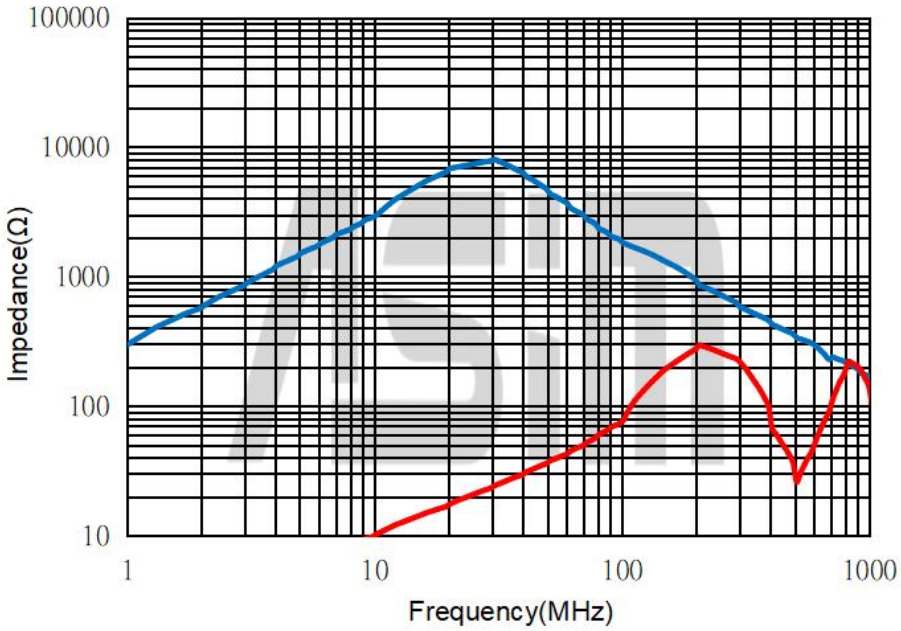
Specification

P/N	H(uH) Common Mode inductance @1MHz	DCR (Ω)	ID (mA)	Rated Voltage	Insulation Resistance	Withstanding Voltage
		MAX	MAX	Vdc	IR	Vdc
				(V)Typical	(MΩ)Min	(V)Typical
CMF4532WAC510HFR	51	1	230	80	10	-

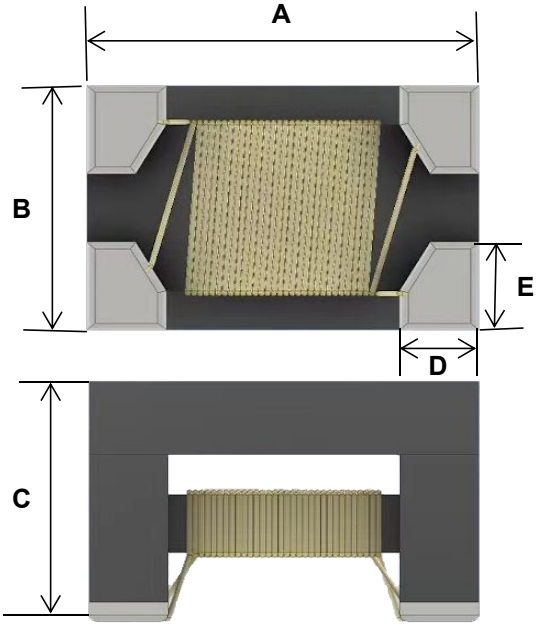
Performance Curves





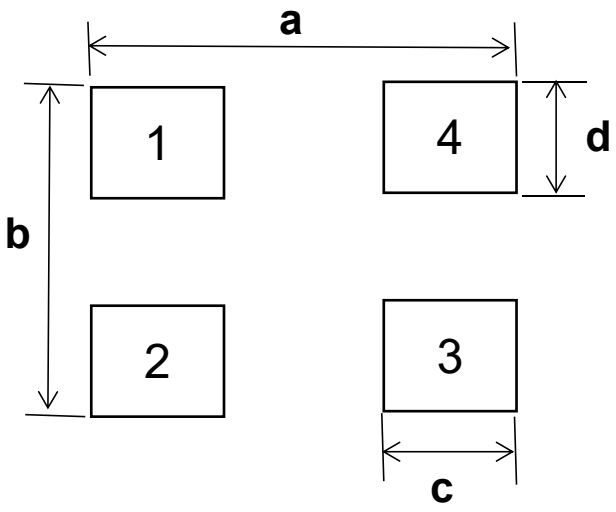


Dimension (mm)



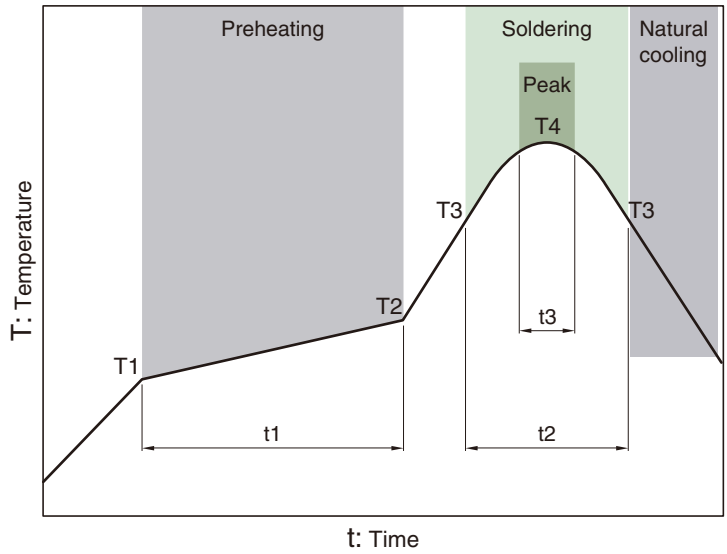
4532	Dimensions(mm)
A	4.5±0.2
B	3.2 ± 0.2
C	2.8 ± 0.2
D	0.8 typ
E	0.9 typ

Recommended Land Pattern (mm)



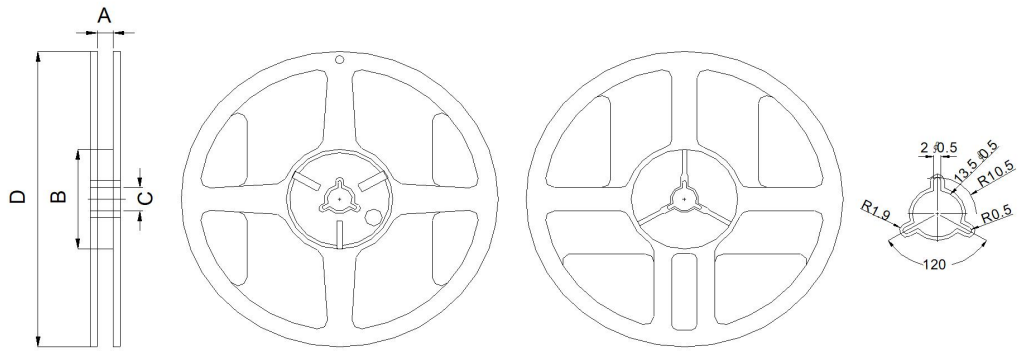
Symbol	Dimensions (mm)
a	5.1
b	3.39
c	1.35
d	1.32

Recommended Reflow Profile



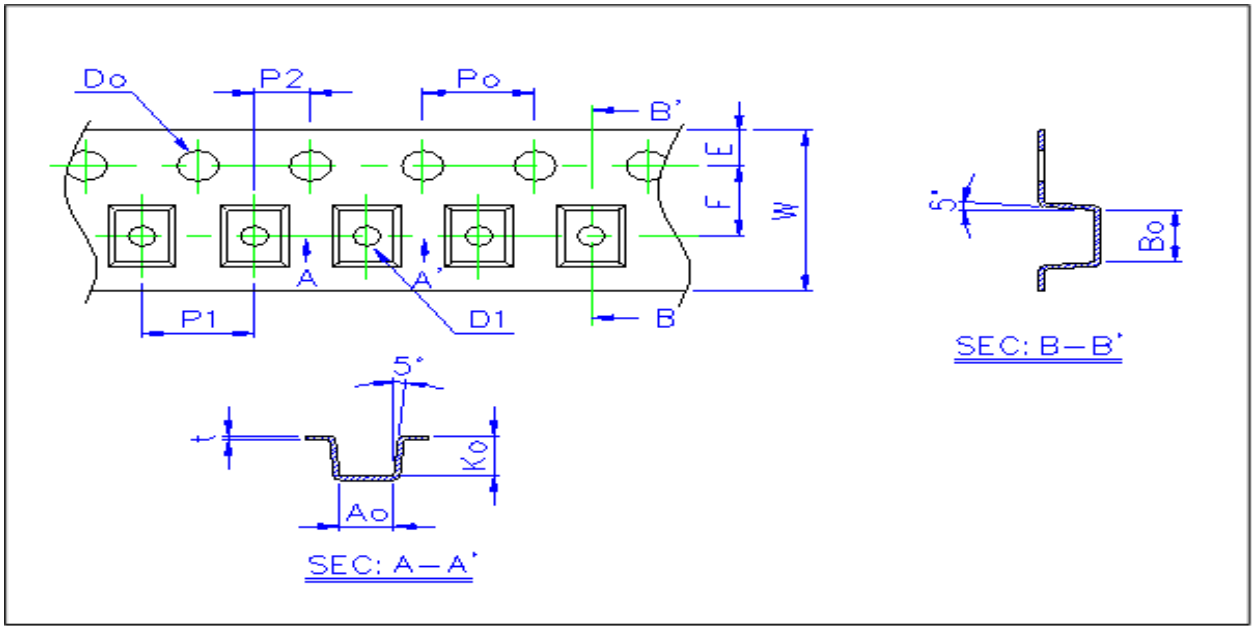
Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	25 to 35s	250°C	5s

Reel Dimmension&Tape Dimension (mm)



7"x8mm 7"x12mm

Type	A(mm)	B(mm)	C(mm)	D(mm)
7”x8mm	9.0±0.5	60±2	13.5±0.5	178±2



Size	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	Do(mm)
4532	3.45±0.10	4.90±0.10	3.05±0.10	12.00±0.20	1.75±0.10	5.50±0.05	4.0±0.05	8.0±0.10	1.5+0.1,-0