



## Common mode chokes

### Data and signal line chokes

Series/Type: SCM05-9250  
Rev.No. A1  
Issue Date: Aug/12/2019

Prepared by	Checked by	Approved by

### RoHs and halogen-free Compliance

#### DONGGUAN CHIKARA ELECTRONICS TECHNOLOGY CO.,LTD

Address:No.25 Xia Wei Tian,Qing Hu Tou Community,Tang Xia Town,Dongguan,Guangdong 523726,P.R.China

Tel:+86(769)-82553009 | Fax:+86(769)-82553010 | E-mail: sales@chikaracoil.com | Web:www.chikaracoil.com

Note:This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

## Revision and History

**SCM05-9250 Series**

Page: 1/9

Rev.	Date	Revision Description	Checked	Approved
A1	Aug/12/2019	Initial release.	Louise Liu	Cason Chen

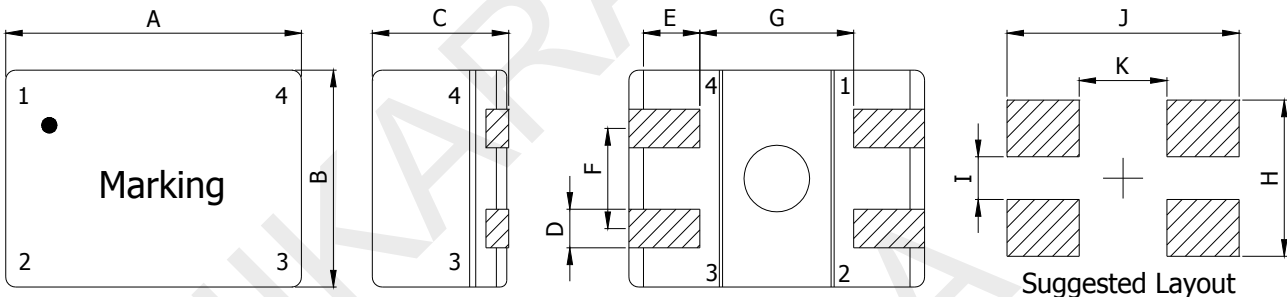
CHIKARA  
CHIKARA  
CHIKARA

Features

- Common mode chokes
- Storage temperature range:-40°C to +85°C
- Operating temperature range:-40°C to +125°C (including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:1000pcs. Per 13-inch reel
- RoHS&Halogen-free compliance

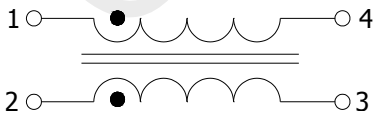


Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I	J	K
9.2±0.3	6.0±0.3	5.0±0.3	1.0±0.1	1.4Ref.	2.54±0.2	5.7Ref.	3.74	1.34	9.5	5.5

Electrical Schematic



Part Number Description

SCM05 - 9250 100 N  
 ① ② ③ ④

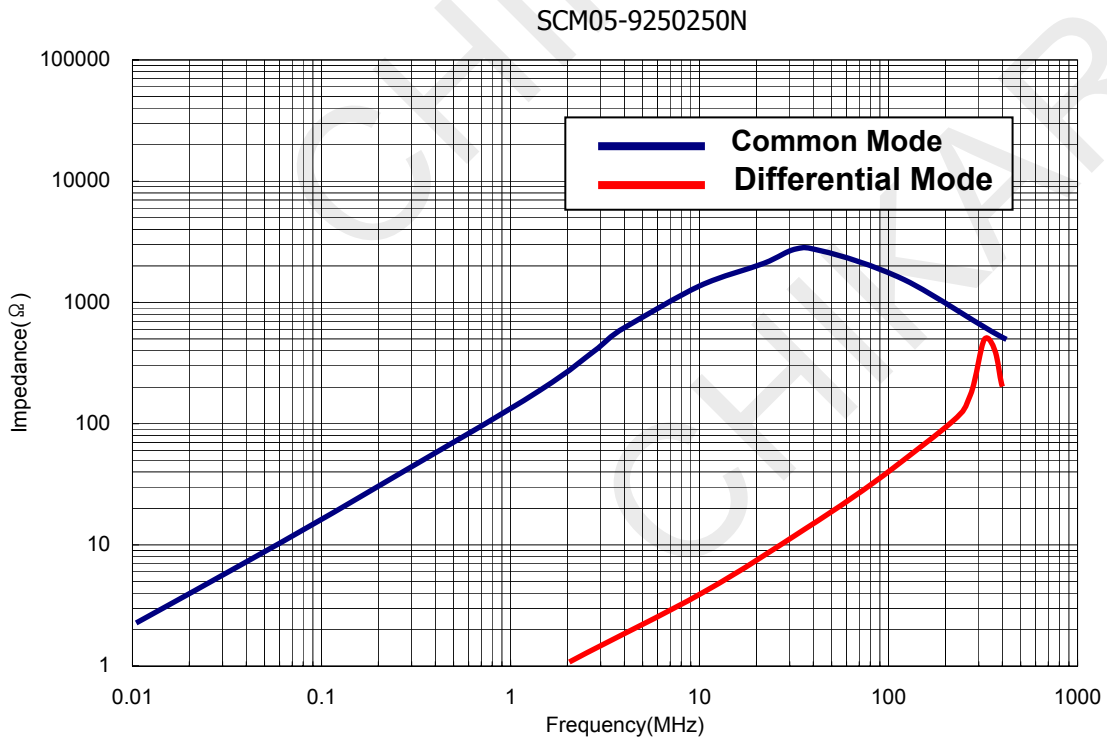
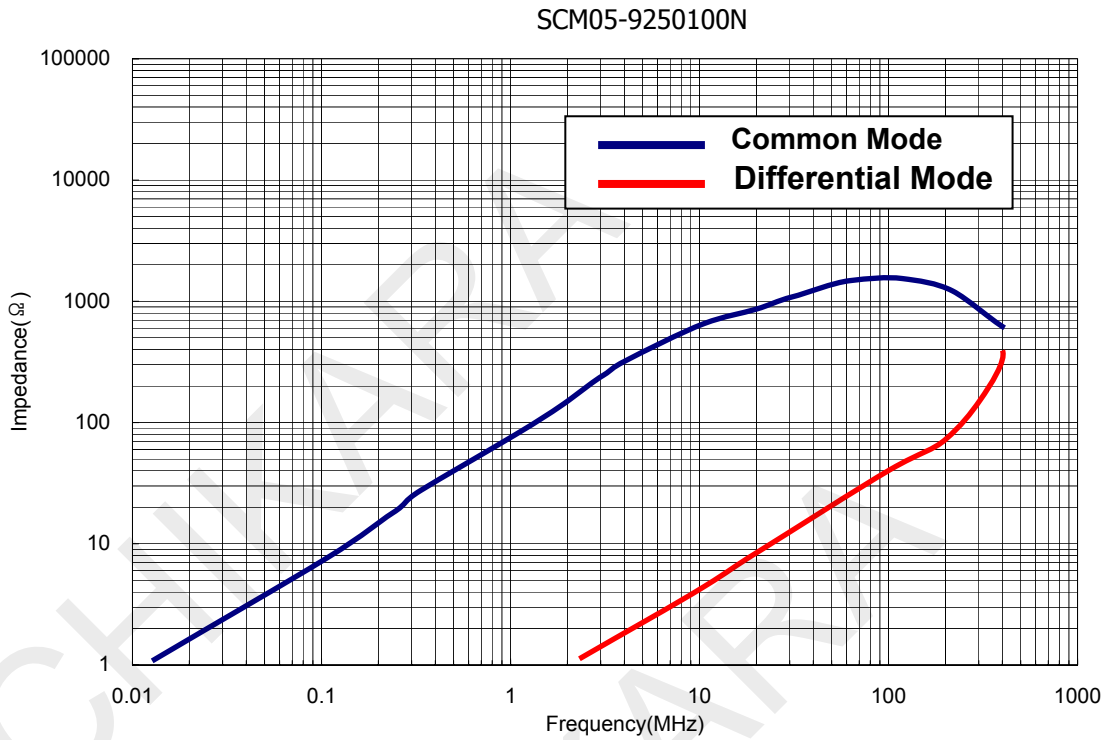
- ① Type
- ② Dimensions
- ③ Inductance value
- ④ Tolerance code

Electrical Characteristic

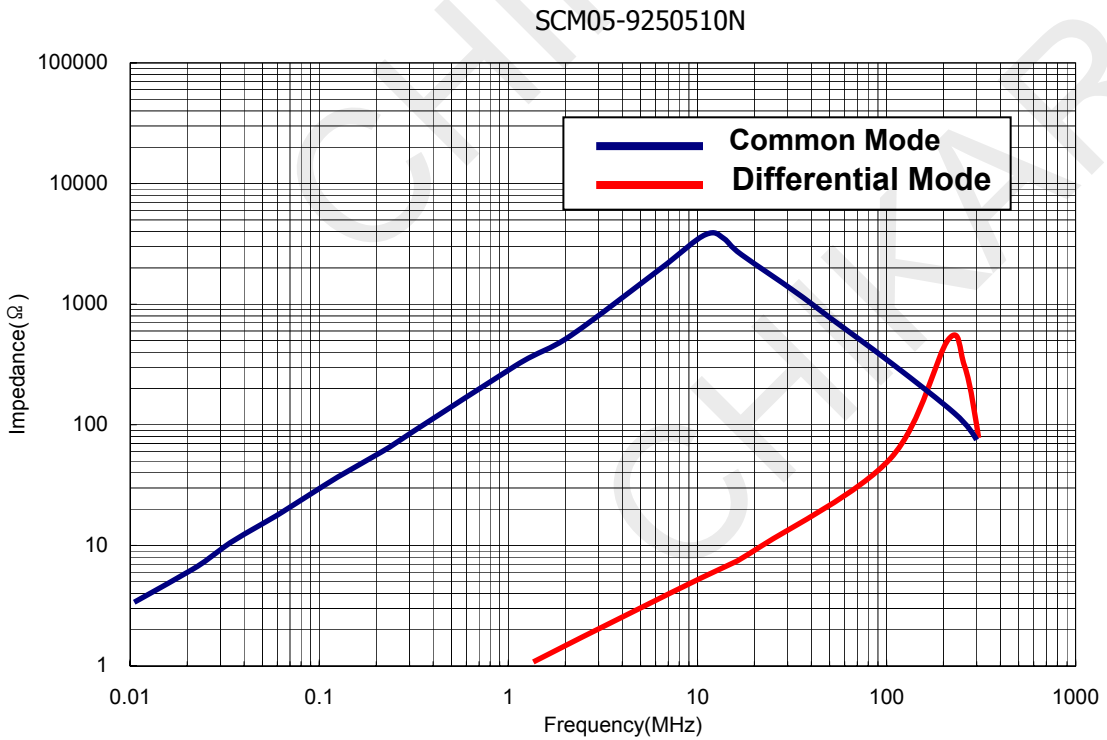
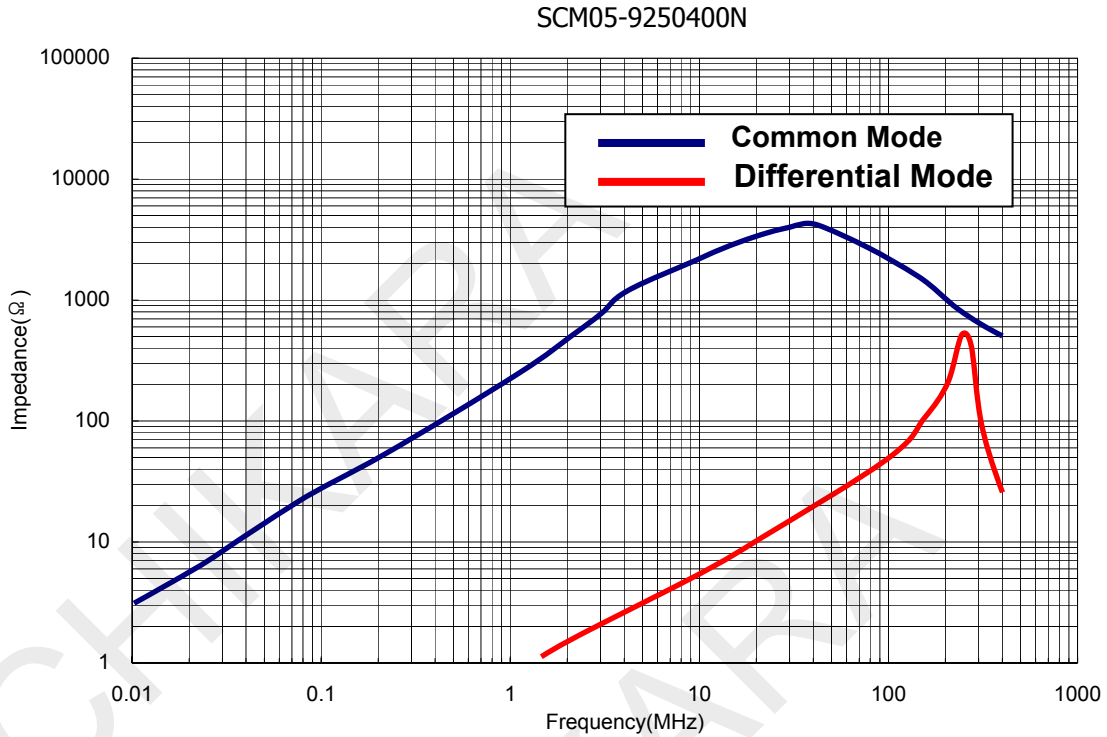
Part Number	Inductance (uH)	Max.Impedance (Ω)Typ.	DCR (Ω)Max.	Rated Current (A)Max.	Rated Voltage (V)Max.	Hi-Pot (Coil - Coil)
SCM05-9250100N	10±30%	920	0.08	1.6	80	0.5KV AC/3mA/3S
SCM05-9250250N	25±30%	2800	0.12	1.0	80	0.5KV AC/3mA/3S
SCM05-9250400N	40±30%	3100	0.25	0.9	80	0.5KV AC/3mA/3S
SCM05-9250510N	51±30%	5500	0.16	1.0	80	0.5KV AC/3mA/3S
SCM05-9250251Q	250±50%	1800	0.13	1.2	80	0.5KV AC/3mA/3S
SCM05-9250501Q	500±50%	3300	0.15	1.0	80	0.5KV AC/3mA/3S
SCM05-9250102Q	1000±50%	6000	0.31	0.8	80	0.5KV AC/3mA/3S
SCM05-9250202Q	2000±50%	9200	0.42	0.6	80	0.5KV AC/3mA/3S
SCM05-9250472Q	4700±50%	20000	0.75	0.5	80	0.5KV AC/3mA/3S
SCM05-9250652Q	6500±50%	18400	0.95	0.4	80	0.5KV AC/3mA/3S

- All test data referenced to 25°C ambient.
- Test frequency and voltage:10uH~51uH used 1KHz,0.1Vrms,250uH~6500uH used 100KHz,0.005Vrms.
- Rated current:DC current when temperature of coil increased up to 40°C.

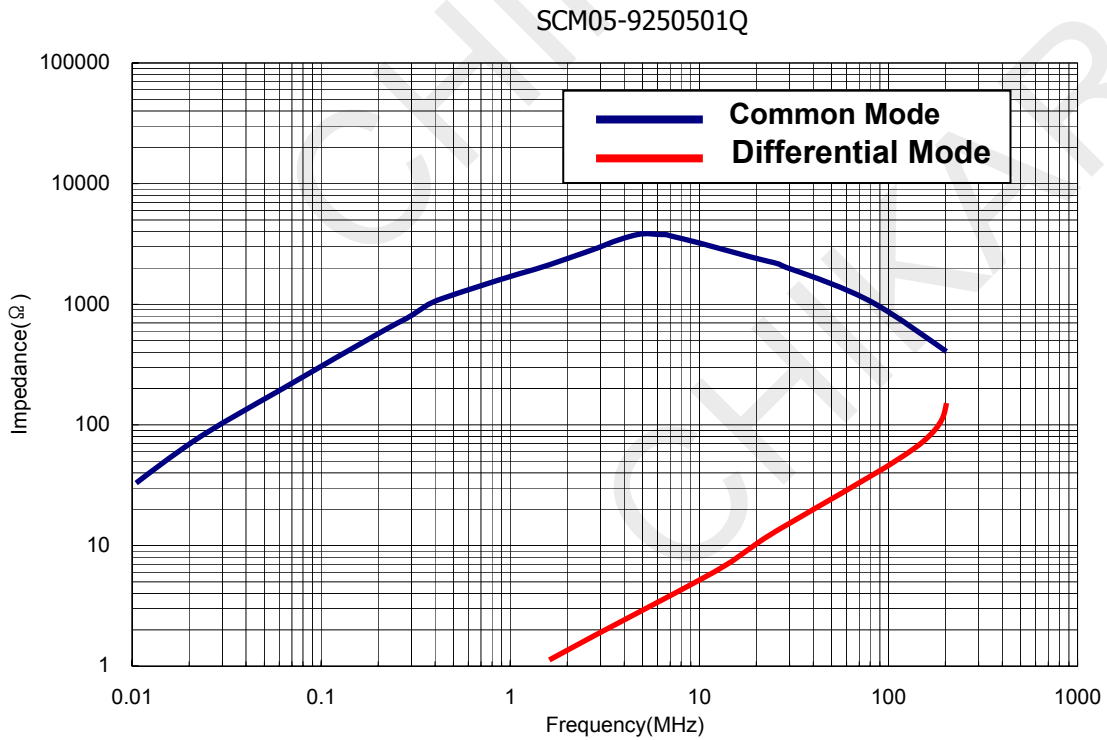
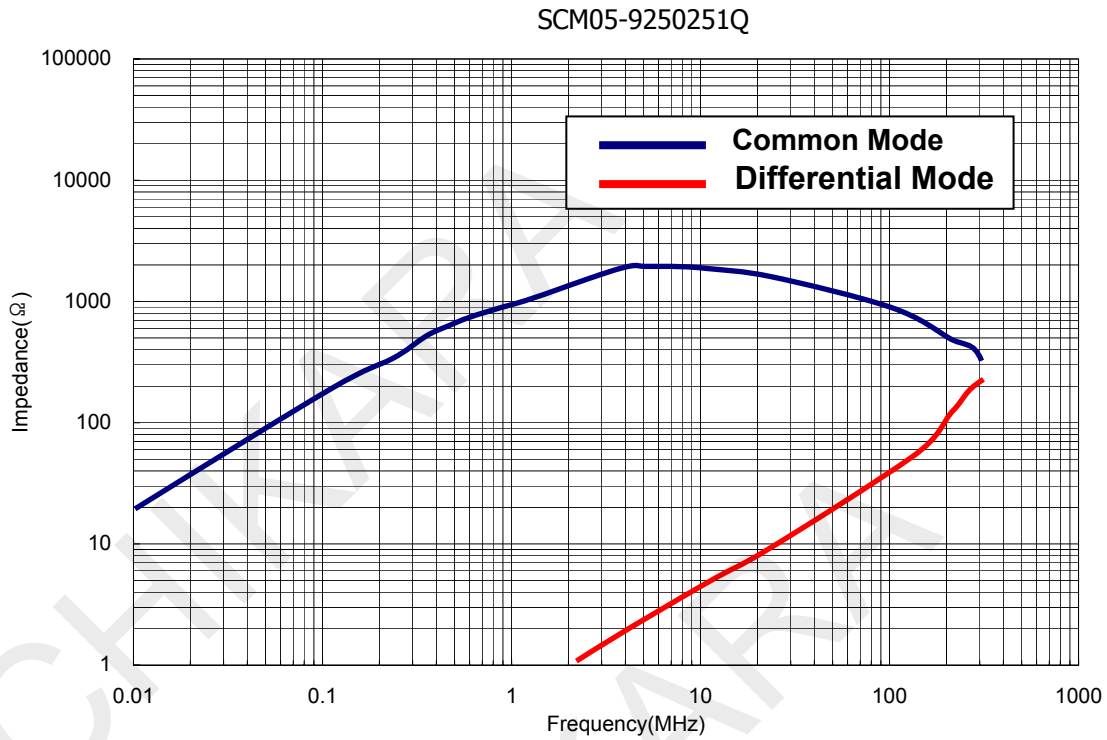
Characteristic Curve(Typical value)



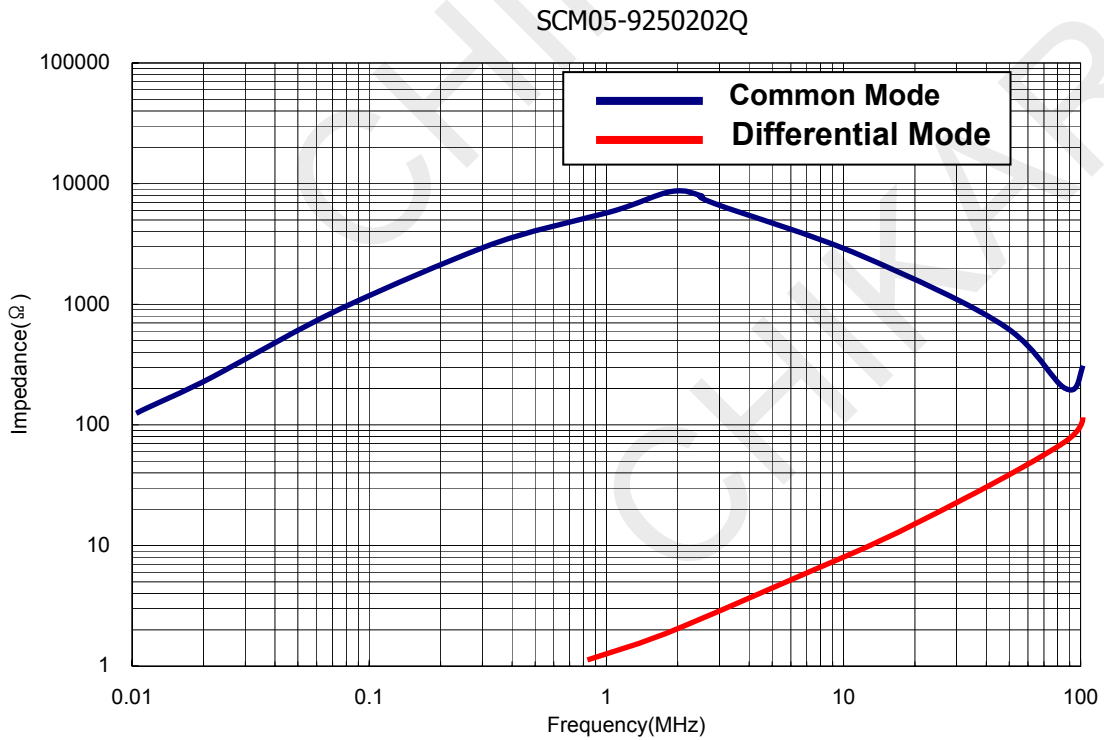
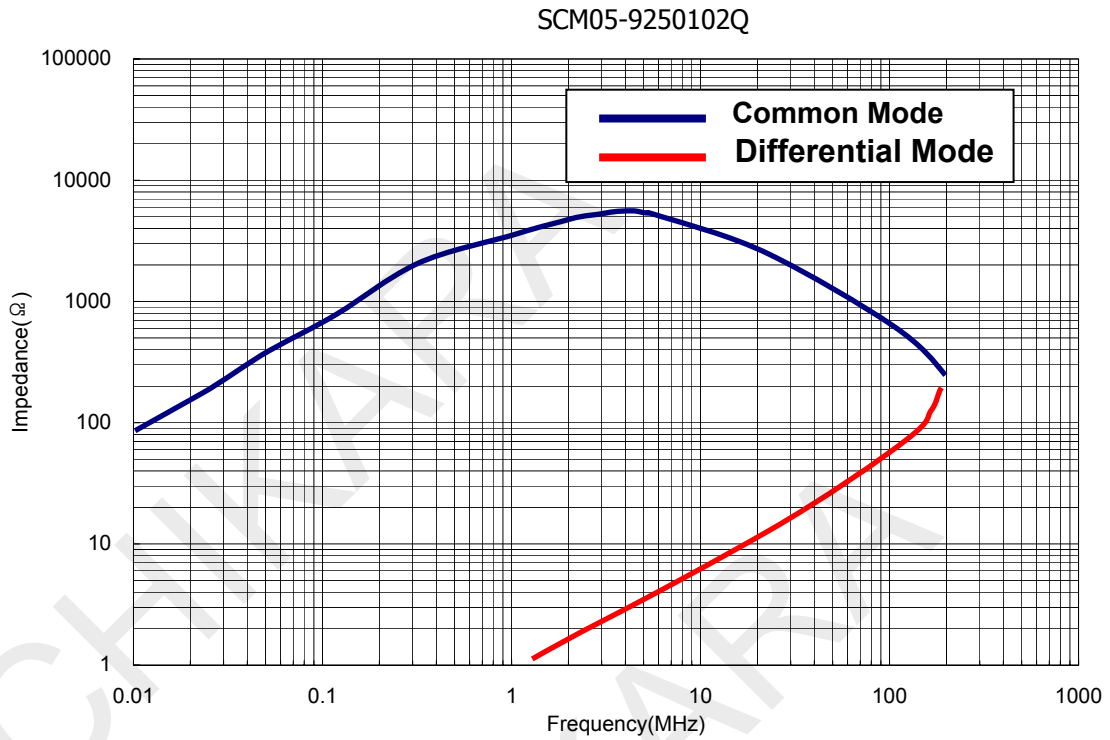
Characteristic Curve(Typical value)



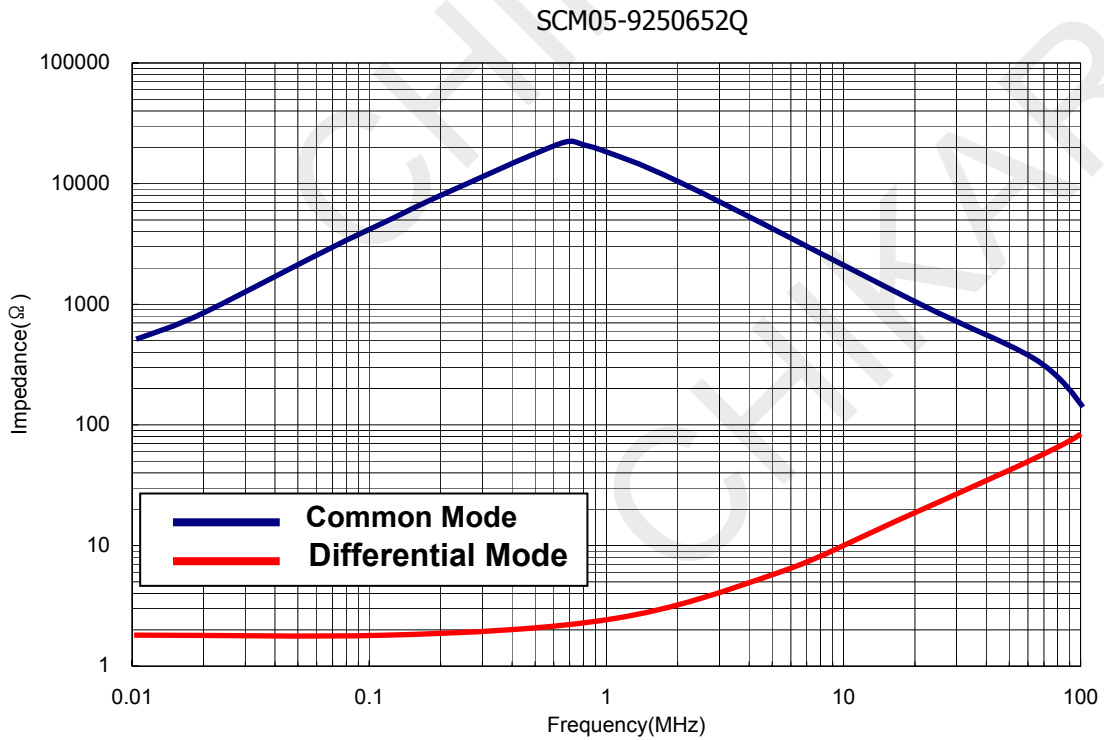
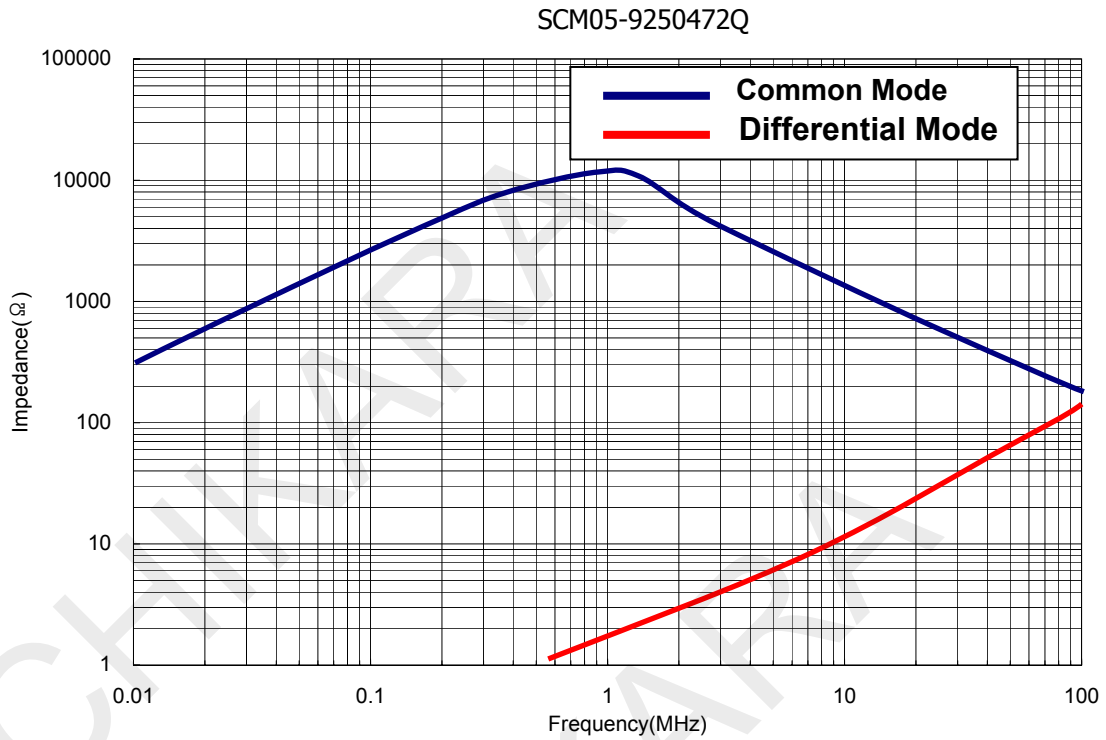
Characteristic Curve(Typical value)



Characteristic Curve(Typical value)

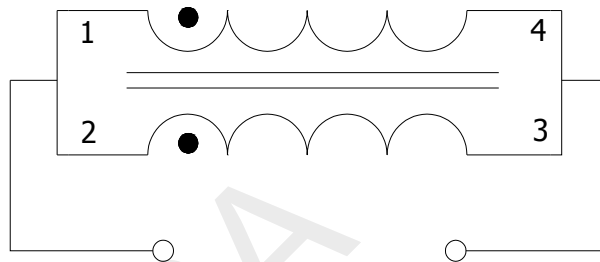


Characteristic Curve(Typical value)

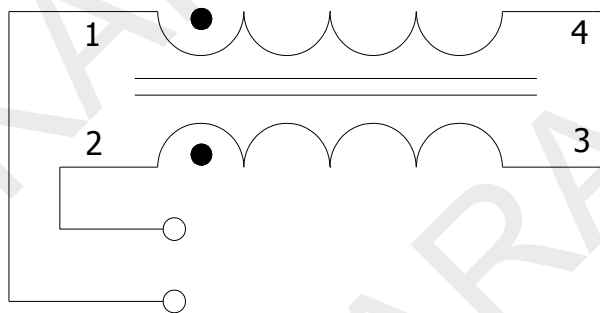




Test Setup



Common Mode



Differential Mode

## Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Ferrite	Guangdong Zhaoqing Magsource Electron Co., Ltd. or Equivalent	/
2	Wire	2UEWH 180°C	PACIFIC Electric Wire&Cable(Shenzhen) Co.,Ltd. or Equivalent	E201757
3	Bobbin	LCP-E4008	Sumitomo Chemical Co.,Ltd. or Equivalent	E54705
4	Tin	Lead-free Sn99.9	Dongguan Thousand Island Metal Foil Co.,Ltd. or Equivalent	/
5	Glue	Epoxy	GUDAK Chemistry Tech(Dongguan)Co.,Ltd. or Equivalent	/