



## Common mode chokes

Leaded common mode chokes for AC lines

Series/Type: DCM01-1818

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**

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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

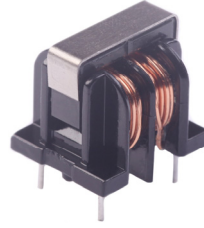
**DCM01-1818 Series**

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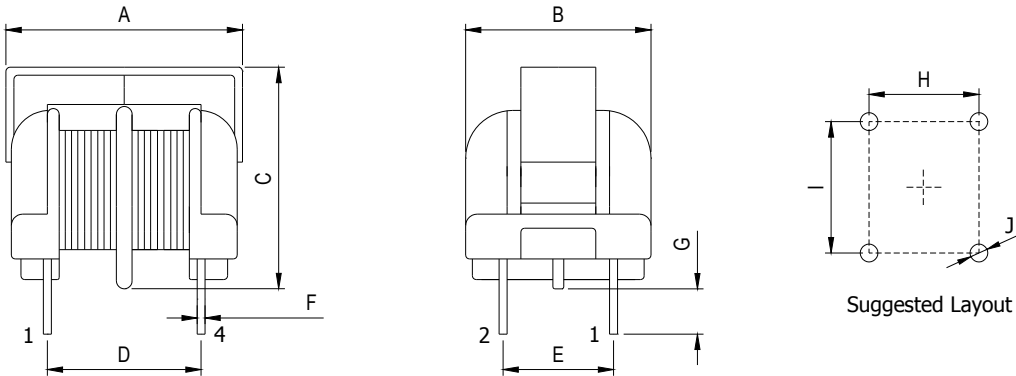
Rev.	Date	Revision Description	Checked	Approved
A1	Aug/12/2019	Initial release.	Louise Liu	Cason Chen

#### Features

- High resonance frequency, Low whirring noise
- Compact switch-mode power applications
- Storage temperature range: -40°C to +105°C
- Operating temperature range: -40°C to +105°C (including coil's self-temperature rise)
- Moisture sensitivity level: 1
- RoHS & Halogen-free compliance

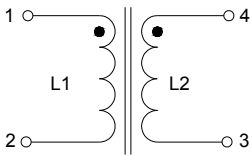


#### Mechanical Dimension (Unit: mm)



A	B	C	D	E	F	G	H	I	J
18.0 Max.	16.0 Max.	17.5 Max.	13±0.5	10±0.5	Φ0.7±0.1	3.5±1.0	10	13	Φ1.3

#### Electrical Schematic



#### Part Number Description

DCM01 - 1818 0015 Y  
 ① ② ③ ④

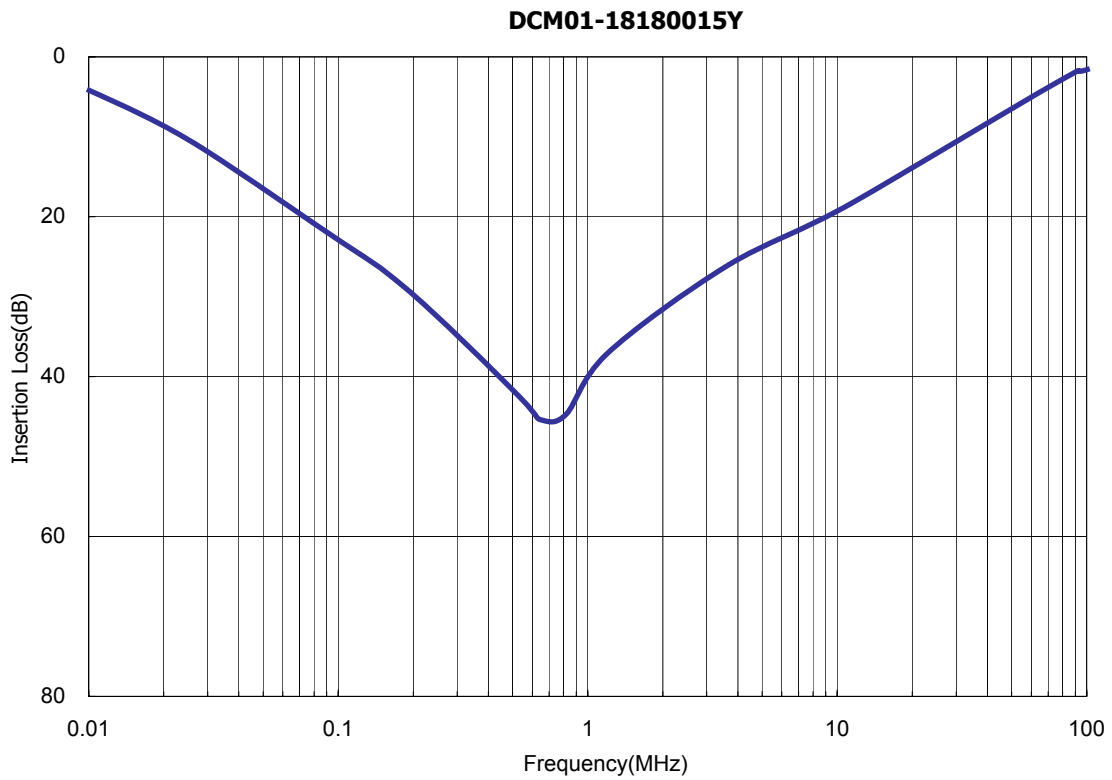
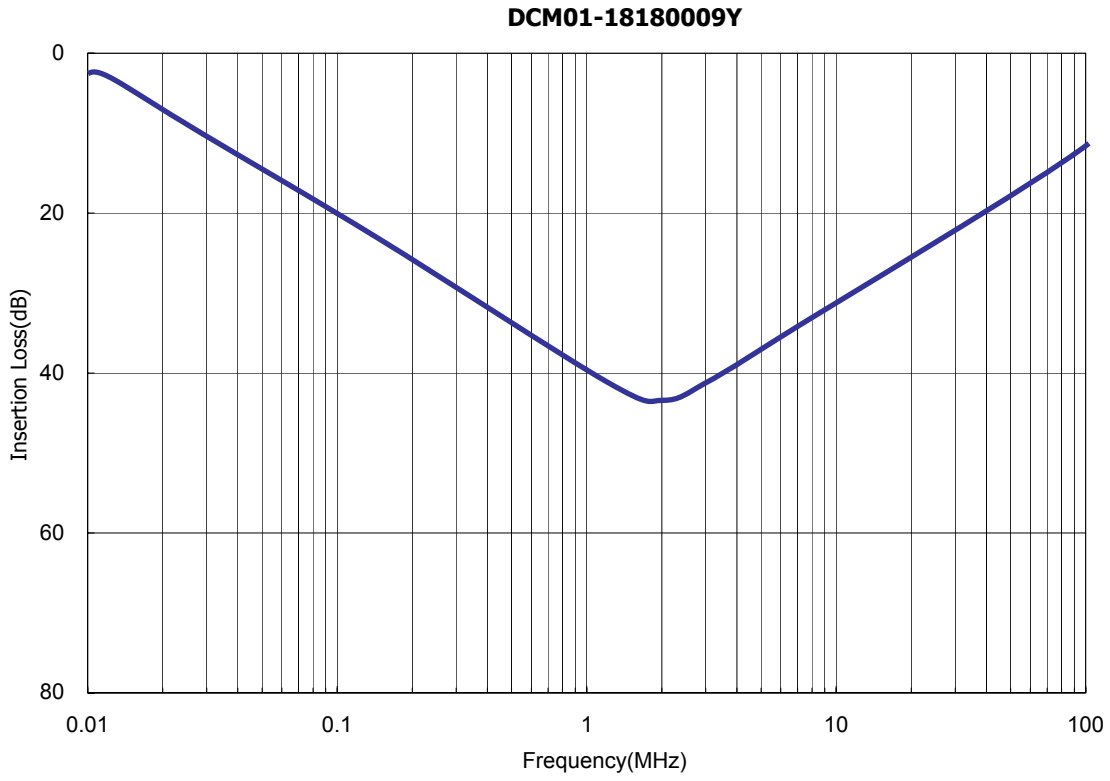
- ① Type
- ② Dimensions
- ③ Inductance value
- ④ Tolerance code

#### Electrical Characteristic

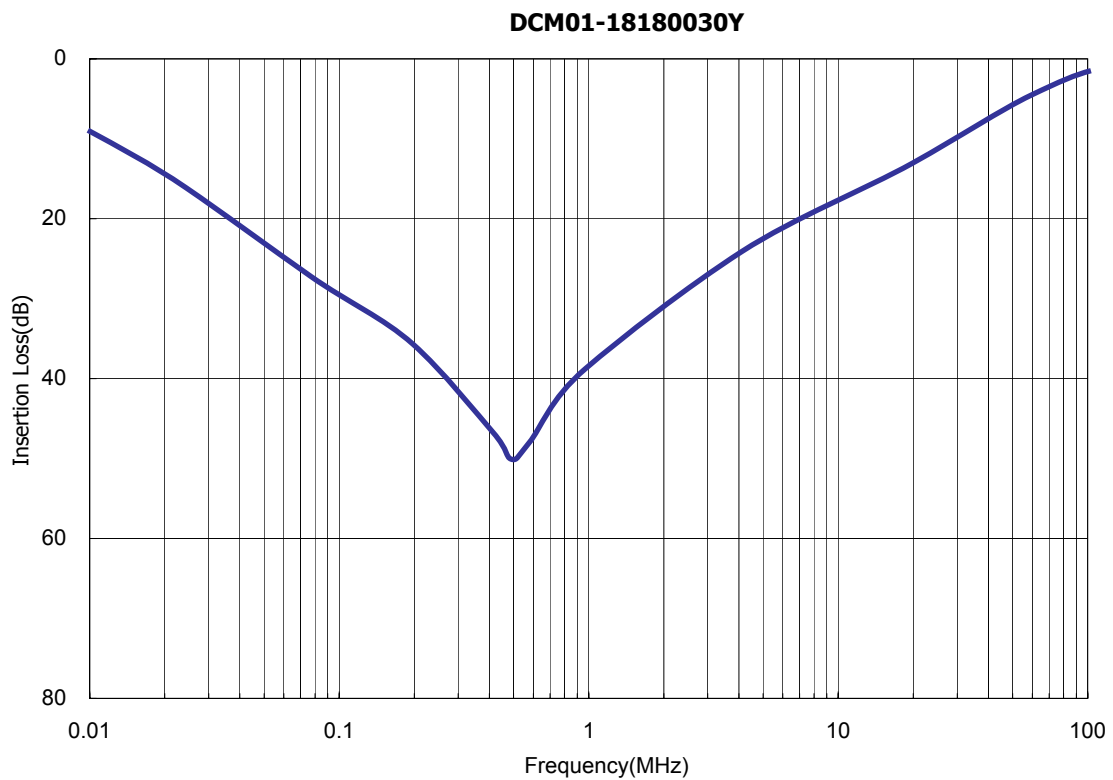
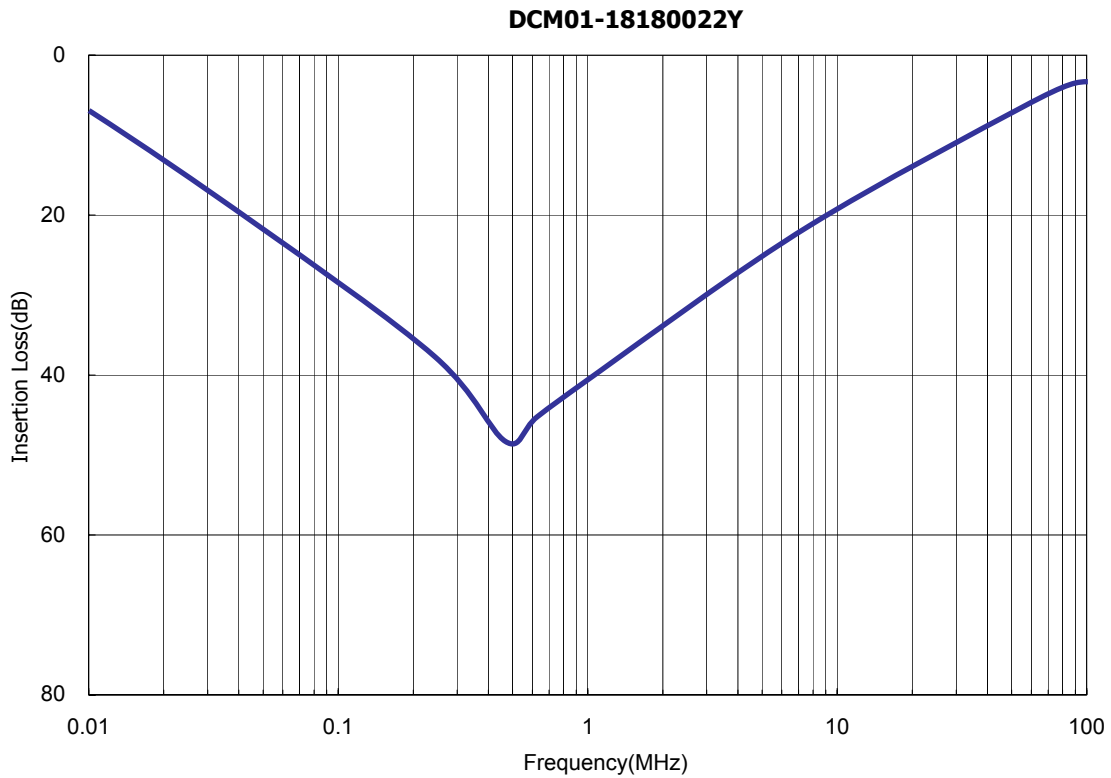
Part Number	Inductance (mH) Min.	DCR (Ω) Max.	Rated Current (A) Max.	Insulation Resistance (MΩ) Min.	Rated Voltage Max.	Hi-Pot (Coil - Coil)
DCM01-18180009Y	0.9	0.12	2.0	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180015Y	1.5	0.15	2.0	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180022Y	2.2	0.22	1.5	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180030Y	3.0	0.26	1.3	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180035Y	3.5	0.32	1.2	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180055Y	5.5	0.46	1.0	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180074Y	7.4	0.64	0.8	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180100Y	10	0.86	0.7	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180200Y	20	1.8	0.5	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180300Y	30	2.7	0.4	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180360Y	36	4.5	0.3	100	300V AC(50/60Hz)	2KV AC/5mA/3S
DCM01-18180430Y	43	4.0	0.3	100	300V AC(50/60Hz)	2KV AC/5mA/3S

- All test data referenced to 25°C ambient.
- Test frequency and voltage: 1KHz, 0.1Vrms.
- Rated current: The AC current at which the temperature rise is Δt of 40°C.

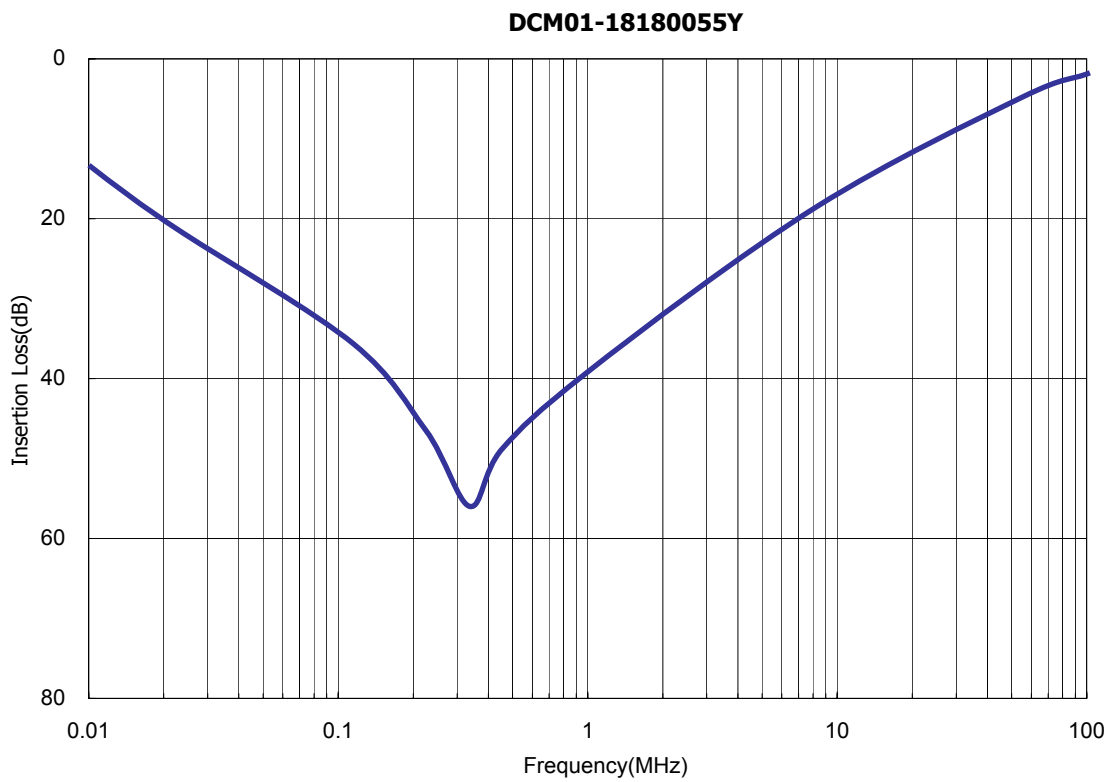
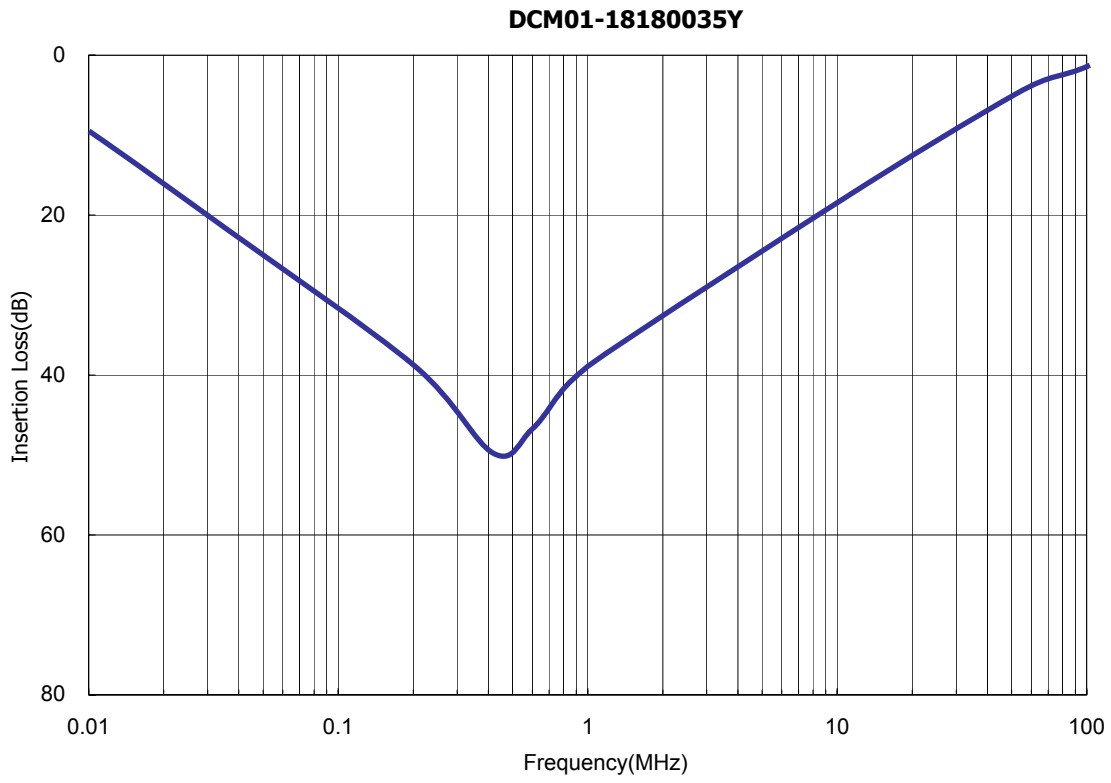
Characteristic Curve(Typical value)



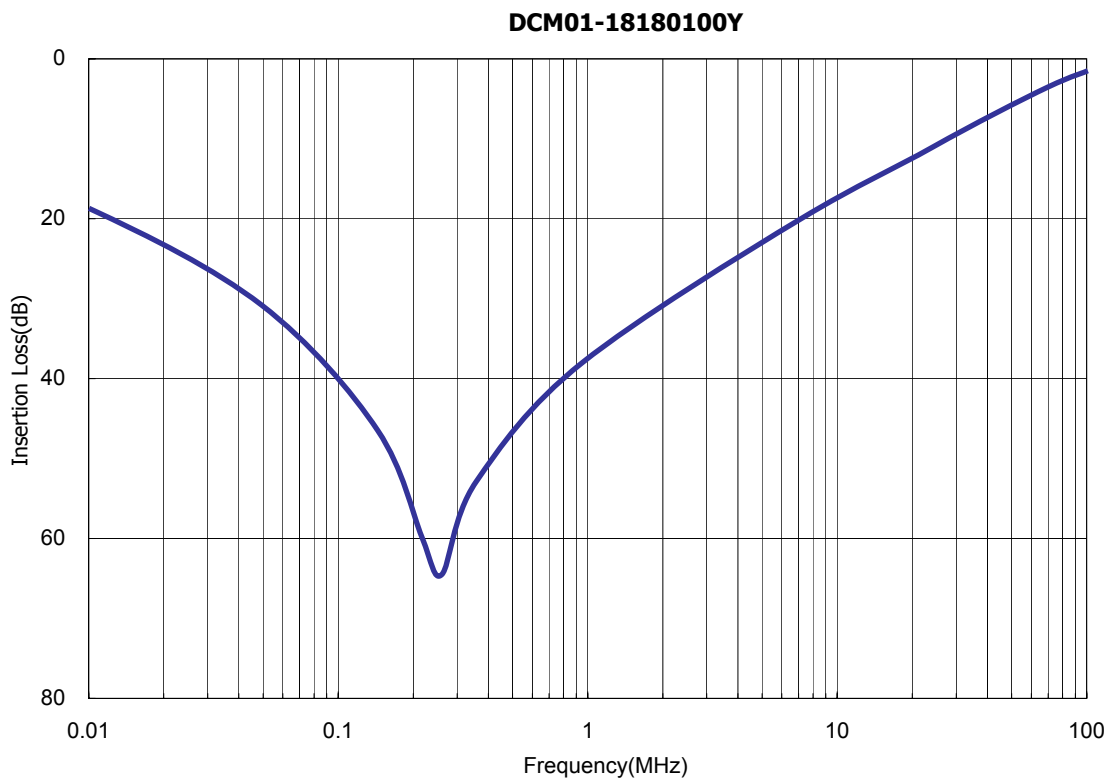
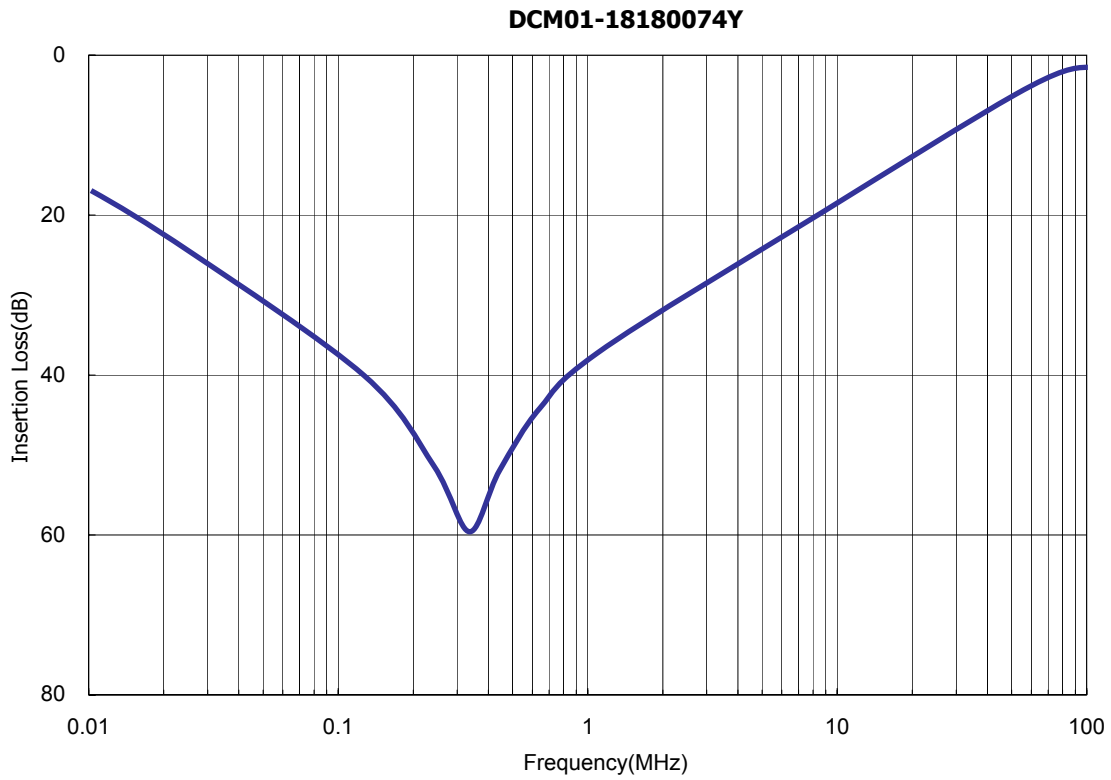
Characteristic Curve(Typical value)



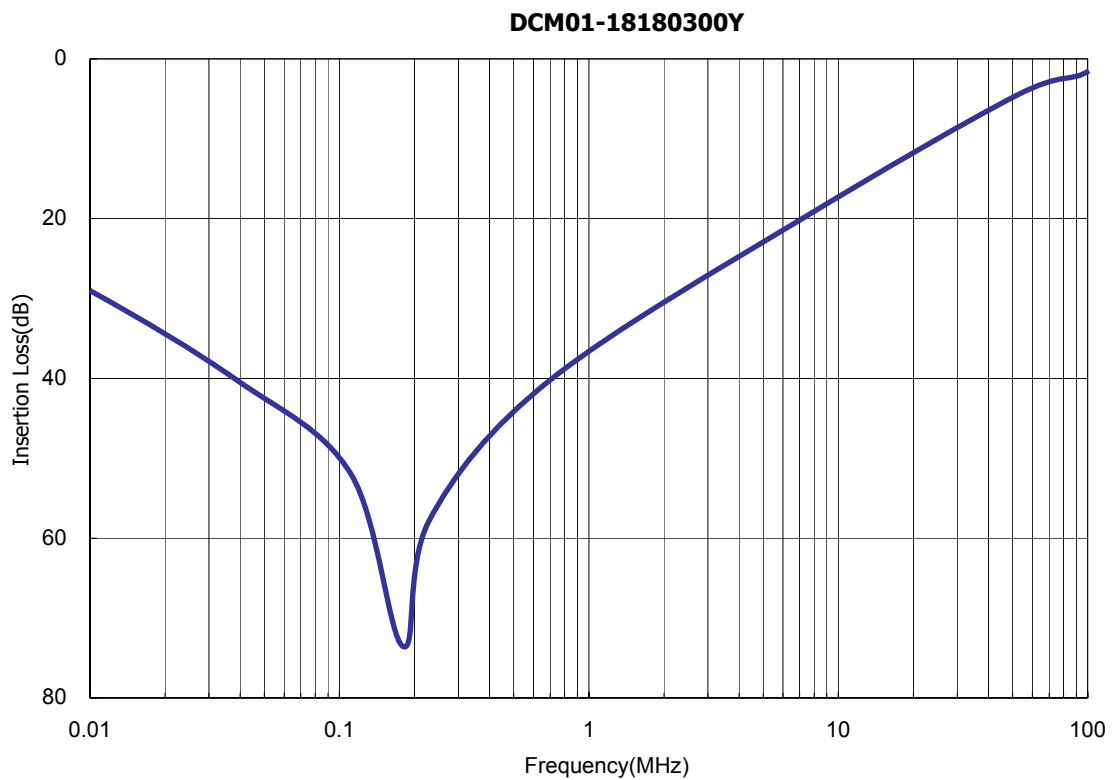
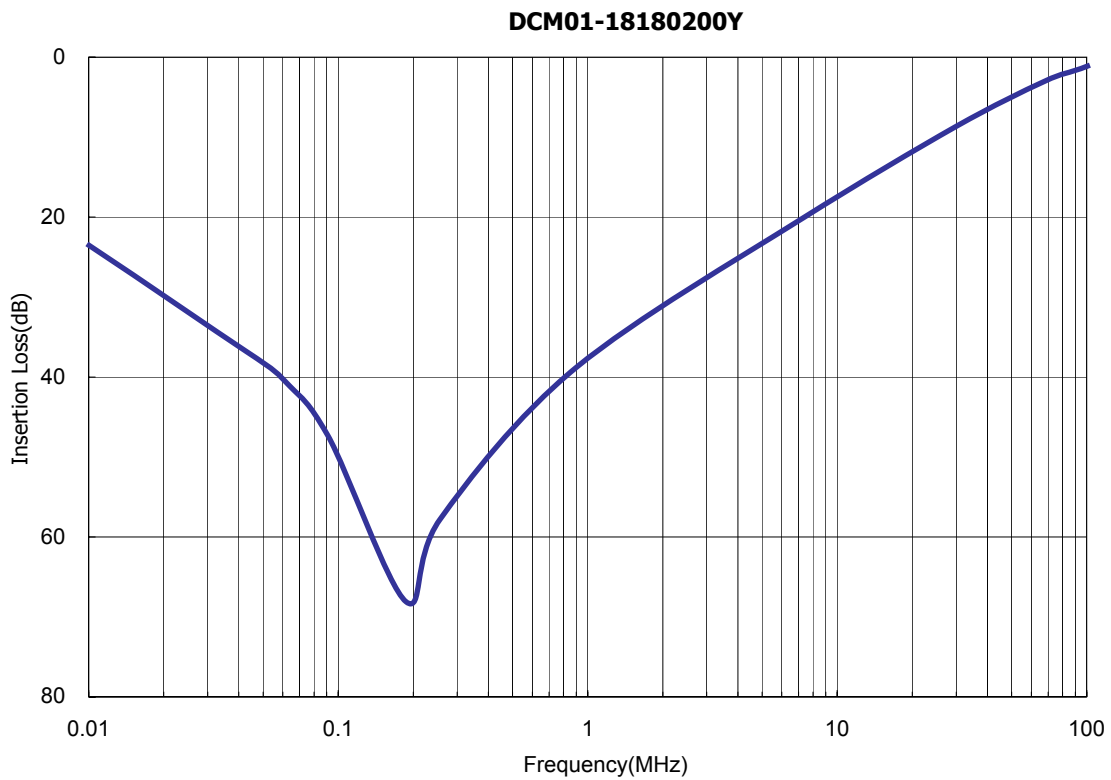
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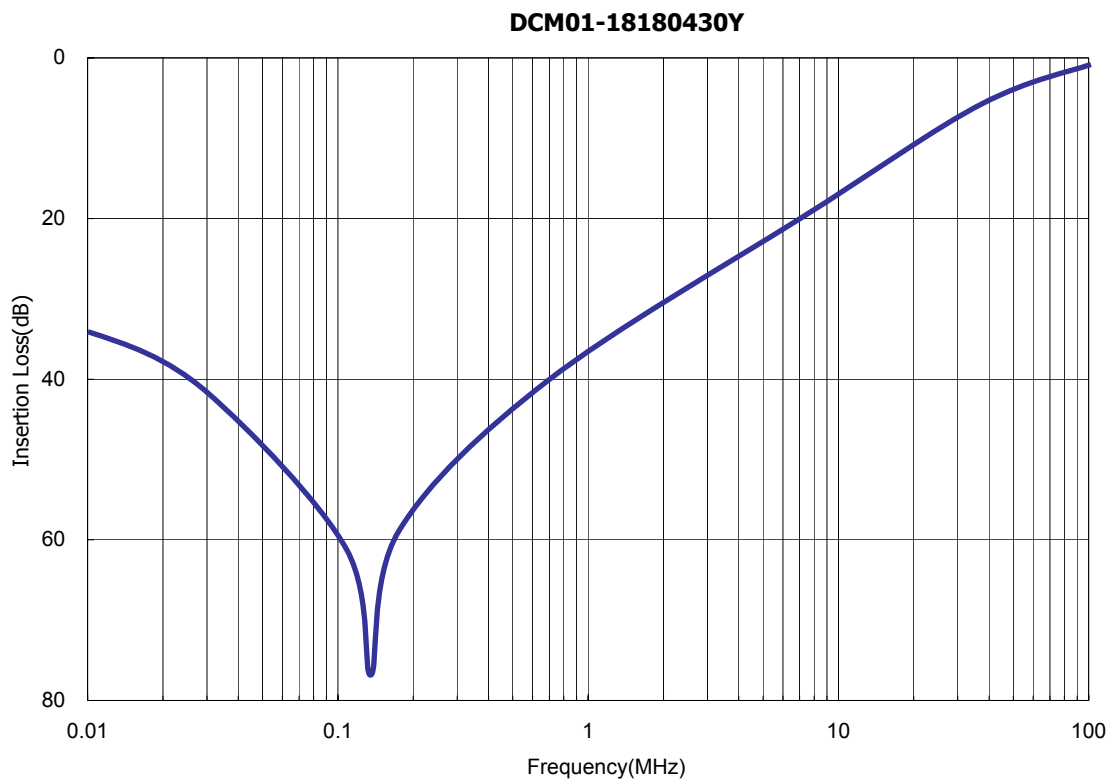
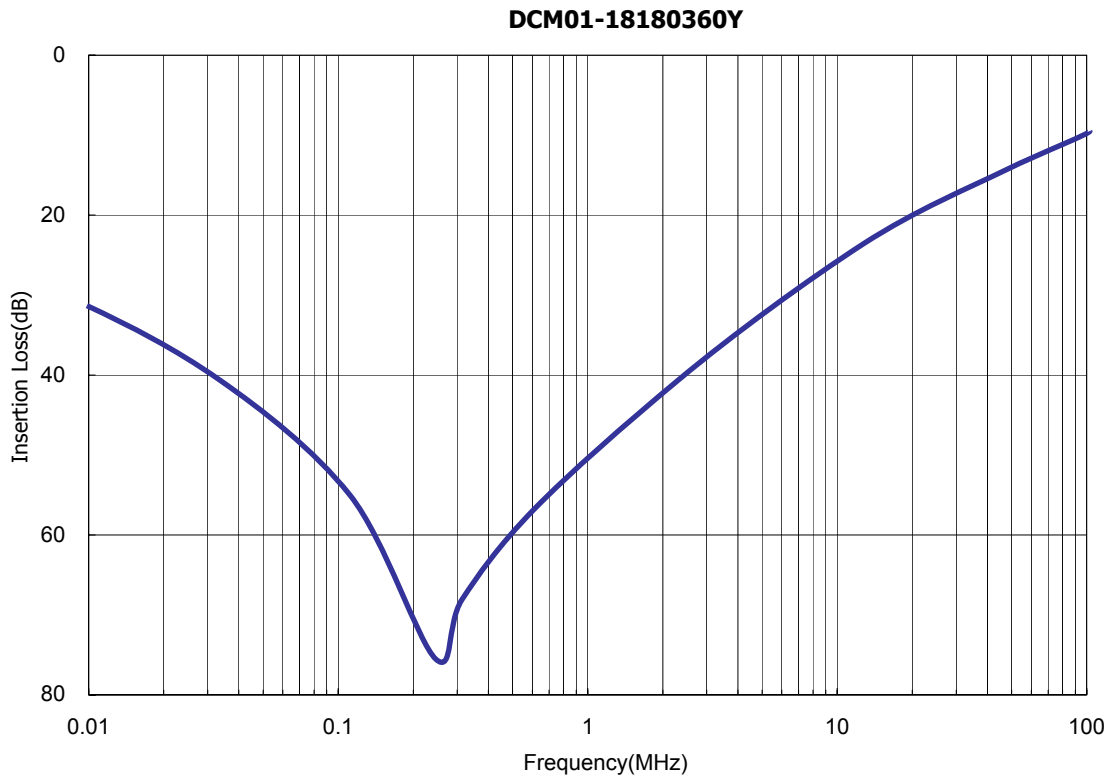


Characteristic Curve(Typical value)





Characteristic Curve(Typical value)



## Material List

No.	Materials	Description	Suppliers	UL No.
1	Core	Ferrite	Guangdong Zhaoqing Magsource Electron Co., Ltd. or Equivalent	/
2	Wire	2UEWF 155℃	PACIFIC Electric Wire&Cable(Shenzhen) Co.,Ltd. or Equivalent	E201757
3	Bobbin	T375HF	Chang Chun Plastics Co.,Ltd. or Equivalent	E59481
4	Tin	Lead-free Sn99.9	Dongguan Thousand Island Metal Foil Co.,Ltd. or Equivalent	/
5	Varnish	T-4260(a) 130℃	Wujiang Taihu Insulating Material Co.,Ltd. or Equivalent	E228349