

# Ring Core Common Mode Choke for Automotive Signal Line – ACSR Series

Operating Temp. : -50°C ~+150°C



## FEATURES

- The circular type, small size and low profile
- Suppression of common mode noise at high frequency
- Excellent mechanical
- AEC-Q200 verified

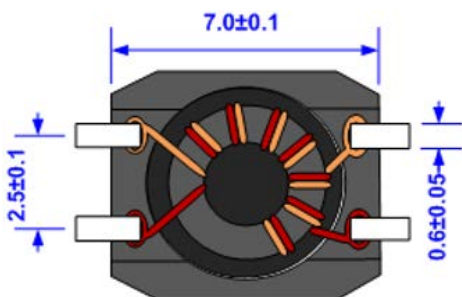
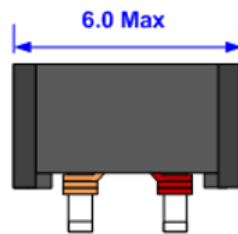
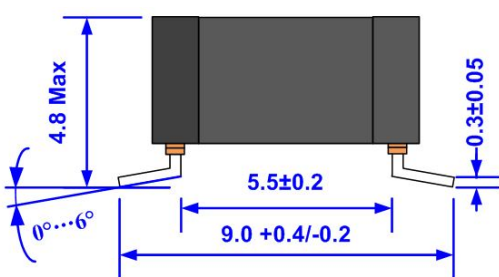
## APPLICATIONS

- Data and signal line

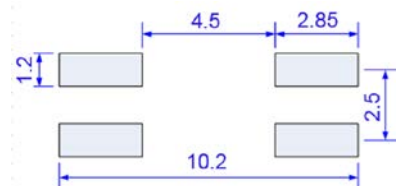
## PRODUCT IDENTIFICATION

<u>ACSR</u> ①		<u>0906</u> ②		<u>S</u> ③	<u>510</u> ④		<u>N</u> ⑤	<u>T</u> ⑥	
②		Type		②		External Dimensions (L×W) (mm)		③	
ACSR		Ring Core Common Mode Choke for Automotive Signal Line		0906		9.0×6.0		S	Sector Winding
								C	Bifilar Winding
④		Inductance(uH)		⑤		Tolerance Limits		⑥	
Example	Nominal Value		N		±30%		T		Packing
250	25						Tape & Reel		
510	51								
101	100								

## SHAPE AND DIMENSIONS



Recommended Land Pattern



Unit: mm

## SPECIFICATIONS

### ACSR0906 TYPE

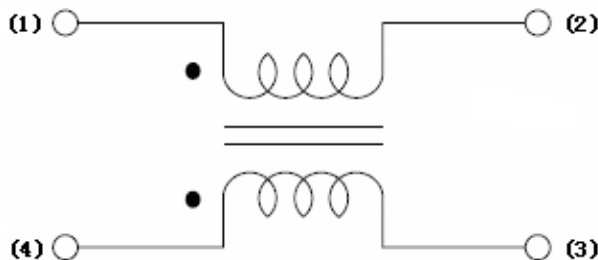
Part Number	Inductance (μH)	Stray Inductance (nH) Typ.	DCR (Ω) Max.	Rated Current (mA) Max.	V <sub>test</sub> (VDC/2S)	Inductance Tolerance	Operation Temperature Range (°C)
ACSR0906C050NT	5(@ 100KHz/0.1mA)	40 (@1MHz/5mA)	0.06	1200	250	±30%	-50~+150
ACSR0906S060NT	6(@ 100KHz/0.1mA)	250 (@1MHz/5mA)	0.02	2000	250	± 30%	-50~+150
ACSR0906C110NT	11(@ 100KHz/0.1mA)	50 (@1MHz/5mA)	0.08	800	250	±30%	-50~+150
ACSR0906C250NT	25(@ 100KHz/0.1mA)	60 (@100K Hz/5mA)	0.11	800	250	±30%	-50~+150
ACSR0906S250NT	25(@ 100KHz/0.1mA)	1400 (@100KHz/5mA)	0.11	800	250	±30%	-50~+150
ACSR0906C510NT	51(@ 100KHz/0.1mA)	70 (@100KHz/5mA)	0.14	800	250	±30%	-50~+150
ACSR0906S510NT	51(@ 100KHz/0.1mA)	2300 (@100KHz/5mA)	0.14	800	250	±30%	-50~+150
ACSR0906C101NT	100(@ 100KHz/0.1mA)	100 (@100KHz/5mA)	0.18	500	250	±30%	-50~+150
ACSR0906C471NT	470(@ 100KHz/0.1mA)	100 (@100KHz/5mA)	0.17	700	750	-30%/+50%	-40~+125
ACSR0906C102NT	1000(@ 100KHz/0.1mA)	70 (@100KHz/5mA)	0.14	700	750	-30%/+50%	-40~+125
ACSR0906C222NT	2200(@ 10KHz/0.1mA)	120 (@100KHz/5mA)	0.4	500	750	-30%/+50%	-40~+125
ACSR0906C472NT	4700(@ 10KHz/0.1mA)	250 (@100KHz/5mA)	0.55	400	750	-30%/+50%	-40~+125

1.Storage temperature range (packaging conditions): -10°C~+40°C and RH 70% (Max.)

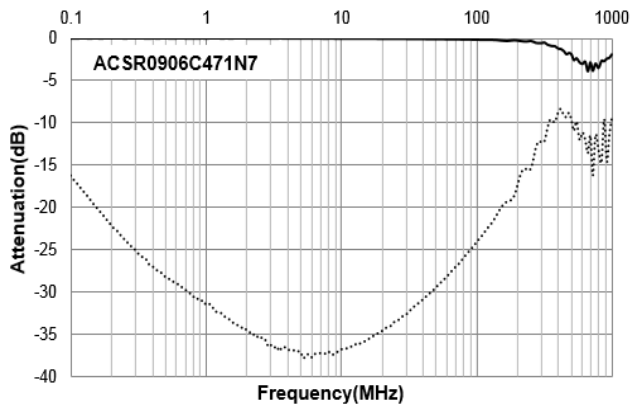
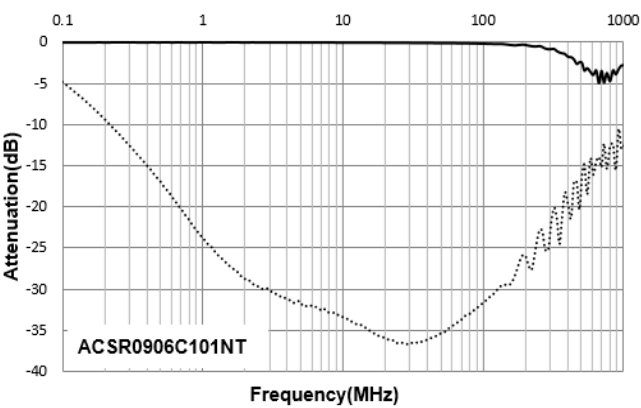
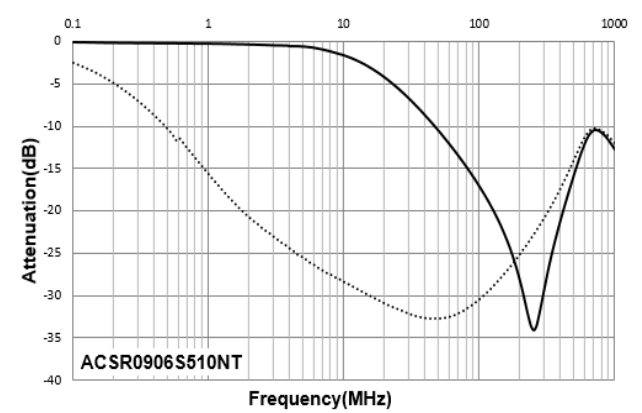
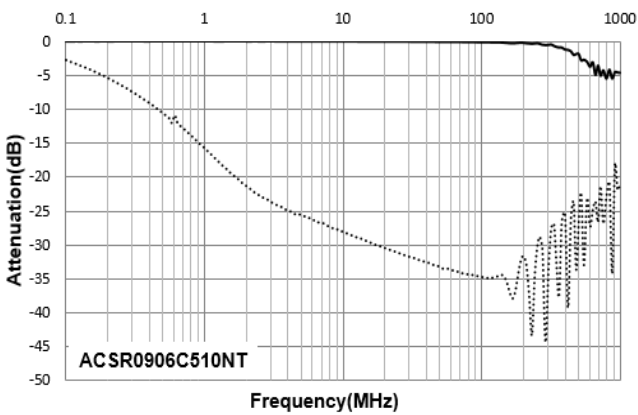
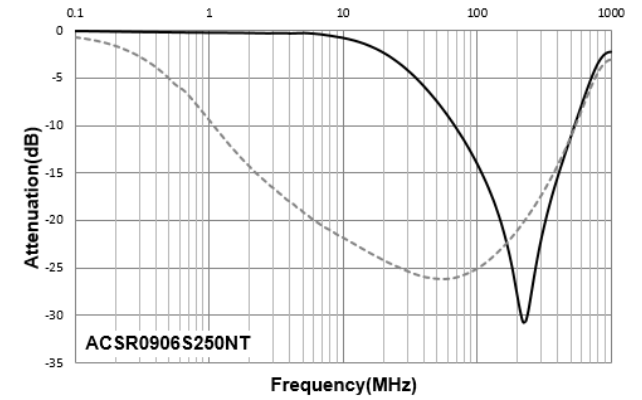
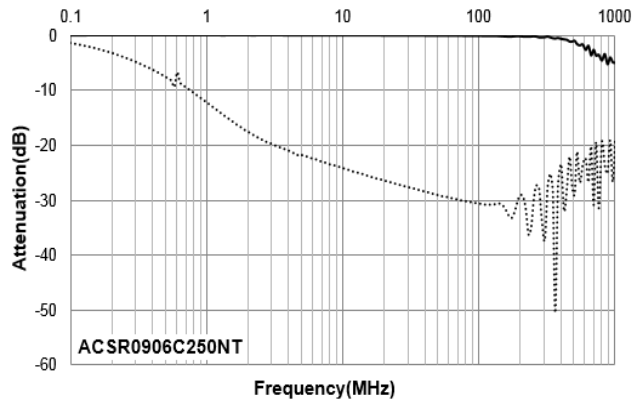
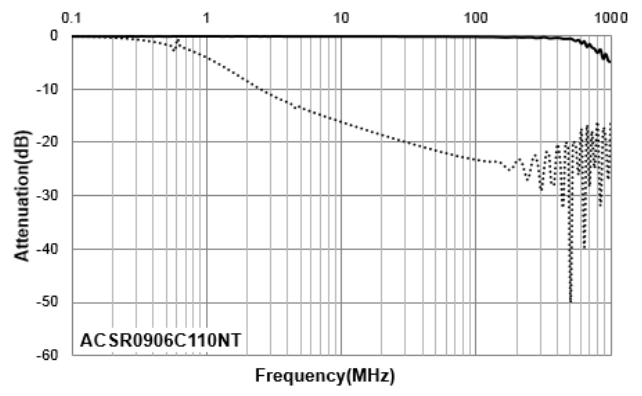
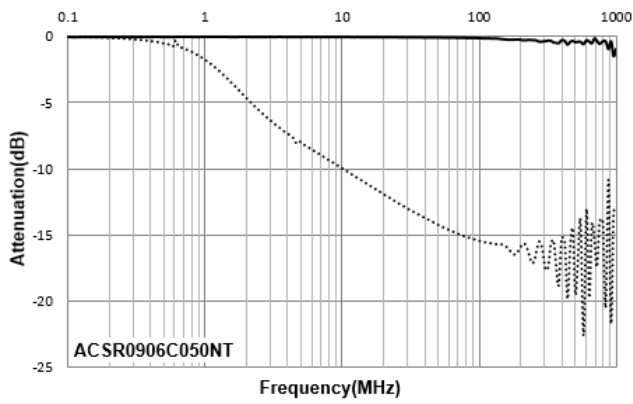
2.Rated voltage:42V AC (50/60Hz) / 80V DC

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

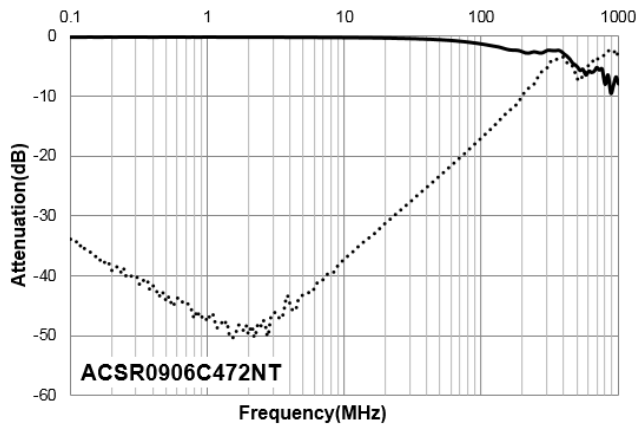
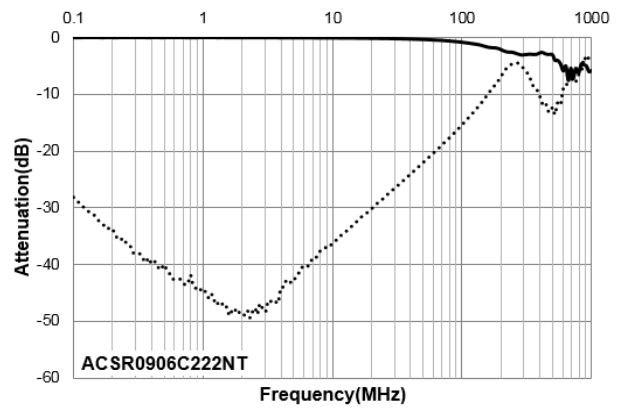
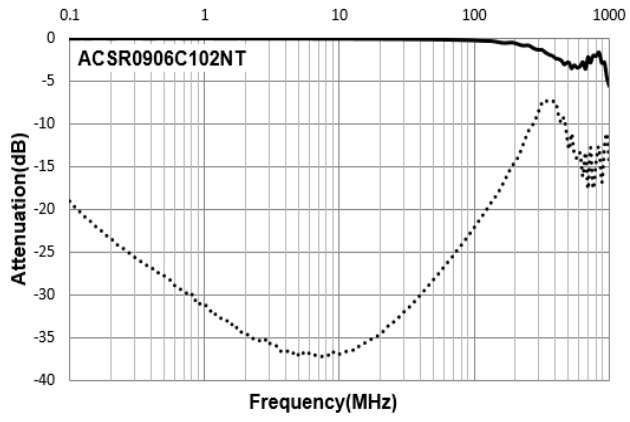
## EQUIVALENT CIRCUIT



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# TYPICAL ELECTRICAL CHARACTERISTICS



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