

AACT Series

Features

- Qualified to AEC-Q200.
- Halogen Free.
- High common mode impedance at high frequency effects excellent noise suppression performance.
- Support a wide range of $-40 \sim +150^{\circ}\text{C}$, can be used for high temperature resistant vehicle equipment.
- High precision automatic winding method ensures high stability and reliability.
- The products 100% Lead(Pb) and RoHS compliant.

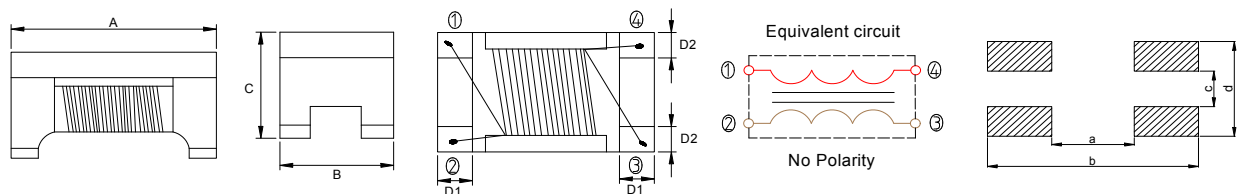
Applications

- The AACT series can be used as a common mode filter for vehicle LAN system such as CANBUS and FlexRay.

Test Equipment and Conditions

- All test data is referenced to 25°C ambient.
- Operating temperature range -40°C to $+150^{\circ}\text{C}$.(Including self - temperature rise).
- The part temperature(ambient + temp rise)should not exceed 150°C under worst case operating conditions.
Circuit design,component placement, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature,part temperature should be verified in the end application.

External Dimensions (Unit:mm)



TYPE	A	B	C	D1 typ	D2 typ	a typ	b typ	c typ	d typ	Q'TY/Reel
AACT322523	3.2 ± 0.2	2.5 ± 0.2	2.3 ± 0.2	0.7	0.9	2.0	3.7	0.6	2.5	1000
AACT453228	4.5 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	1	1.2	2.5	4.8	0.7	3.8	500

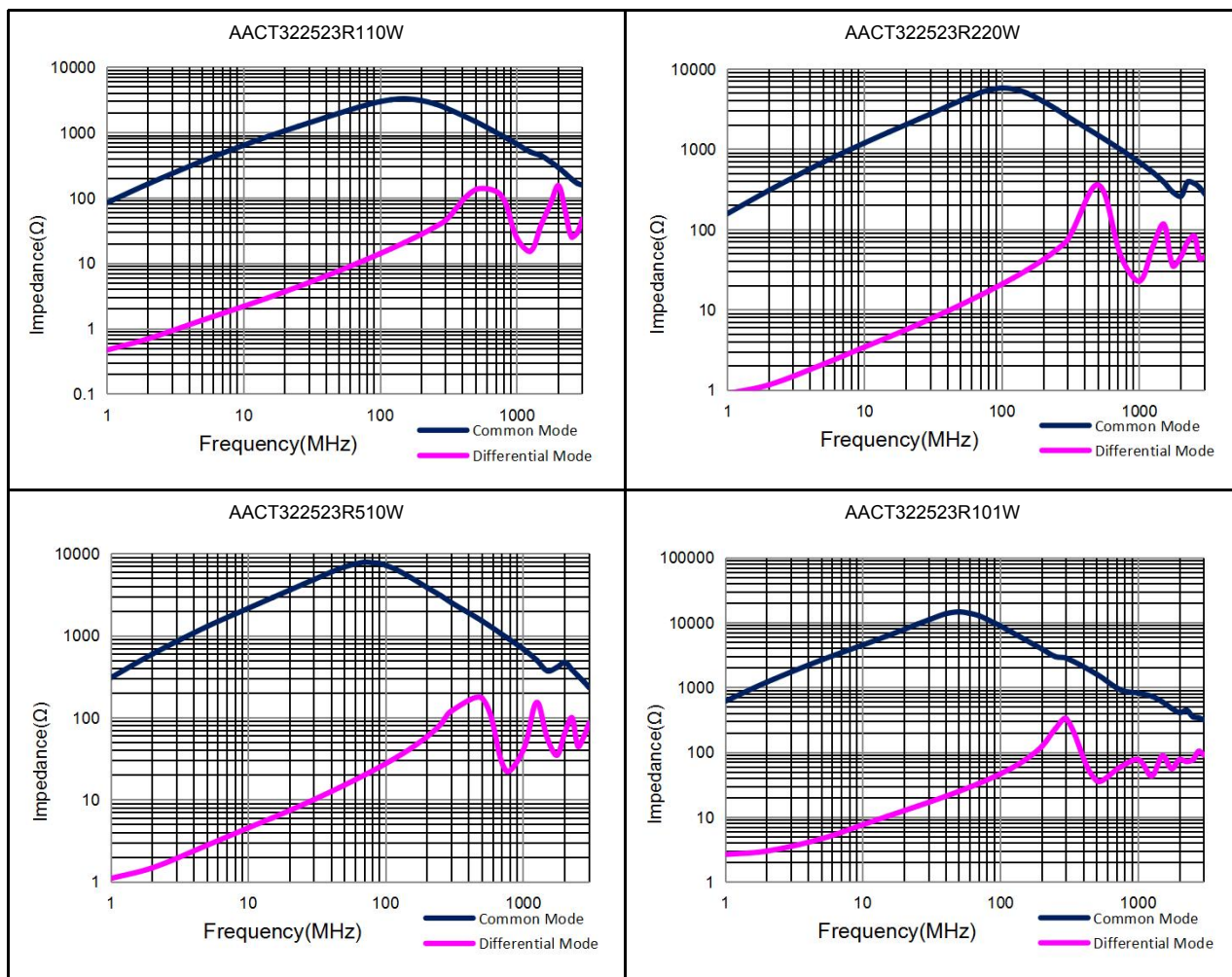
2. Part Number Code

AACT	322523	R	110	W
Series Name	Dimensions: L*W*H	Tolerance	Inductance	Internal Controls

AACT Series

Part Number	Common Mode Impedance @10MHz		Common Mode Inductance @100KHz/0.1V	DC Resistance	Heating Rating Current I _{rms}	Rated Voltage	Withstanding Voltage Vode.	Insulation Resistance
	(Ω)Min.	(Ω)Typ.	(μH)+50%/-30%	(mΩ)Max.	(mA)Max.	(V)Max.	(V)Max.	(MΩ)Min
AACT322523R110W	300	550	11	300	400	50	125	10
AACT322523R220W	500	1100	22	500	300	50	125	10
AACT322523R510W	1000	2600	51	800	200	50	125	10
AACT322523R101W	2200	5100	100	1500	150	50	125	10
AACT453228R110W	300	600	11	600	250	50	125	10
AACT453228R220W	500	1200	22	1000	200	50	125	10
AACT453228R510W	1000	2800	51	1000	200	50	125	10
AACT453228R101W	2000	5800	100	2000	150	50	125	10
AACT453228R201W	5000	11000	200	4500	100	50	125	10

Characteristics(Reference)



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