

CHVR1277

AEC-Q200



■ Features

- SMD magnetic shielded type of power inductor.
- 600V withstand voltage product
- Suitable for DC-DC converter with high voltage input
- AEC-Q200 compliant
- Operating temperature : -40°C~+150°C(The self-heating is included)

Magnetic structure :

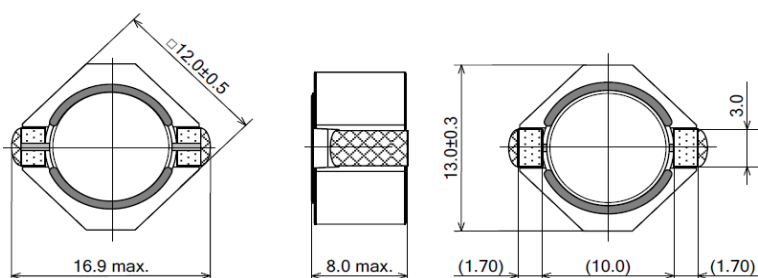


Weight : 4 g

■ Applications

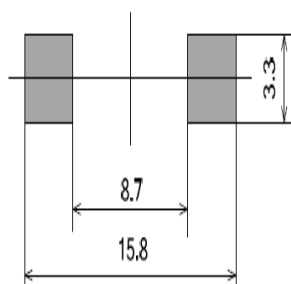
- Automotive/Car Audio, Car Navigation, ECU, LED Headlights
- Home Electronics/Home Electronics
- Others/Energy, Power Supply, FA, Medical

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
<https://www.sagami-elec.co.jp>

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⚠ The contents of this catalogue are subject to change without notice.

■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CHVR1277-151M	150 $\pm 20\%$	0.180	2.15	1.60	1.70	1.20
CHVR1277-181M	180 $\pm 20\%$	0.230	2.01	1.45	1.55	1.15
CHVR1277-221M	220 $\pm 20\%$	0.290	1.88	1.35	1.45	1.05
CHVR1277-271M	270 $\pm 20\%$	0.360	1.75	1.25	1.30	0.910
CHVR1277-331M	330 $\pm 20\%$	0.410	1.40	1.00	1.20	0.880
CHVR1277-391M	390 $\pm 20\%$	0.600	1.25	0.900	1.13	0.800
CHVR1277-471M	470 $\pm 20\%$	0.690	1.15	0.800	1.00	0.700
CHVR1277-561M	560 $\pm 20\%$	0.740	1.05	0.730	0.950	0.650
CHVR1277-681M	680 $\pm 20\%$	0.820	1.00	0.680	0.820	0.600
CHVR1277-821M	820 $\pm 20\%$	0.980	0.910	0.620	0.750	0.550
CHVR1277-102M	1000 $\pm 20\%$	1.15	0.890	0.600	0.680	0.500
CHVR1277-142M	1400 $\pm 20\%$	2.12	0.730	0.550	0.470	0.380

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40℃



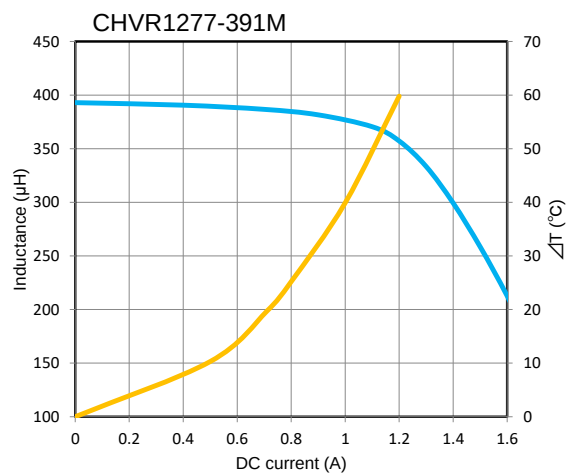
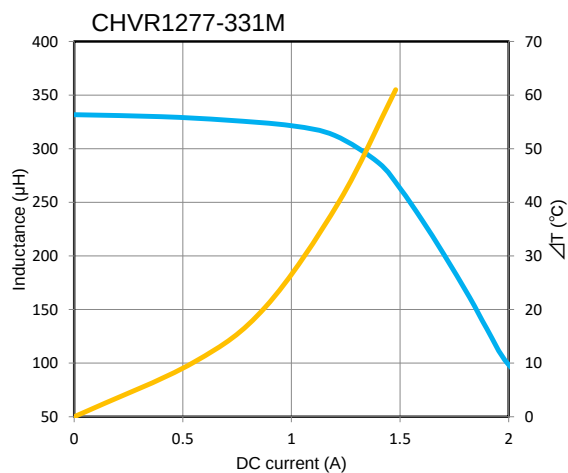
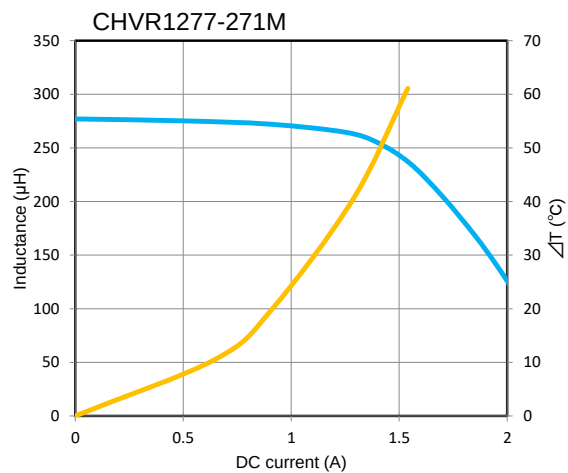
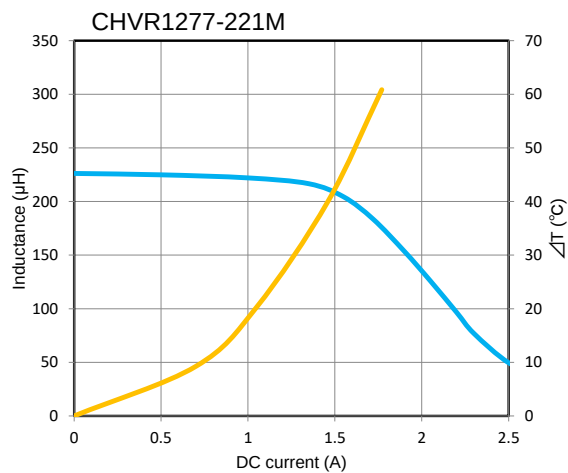
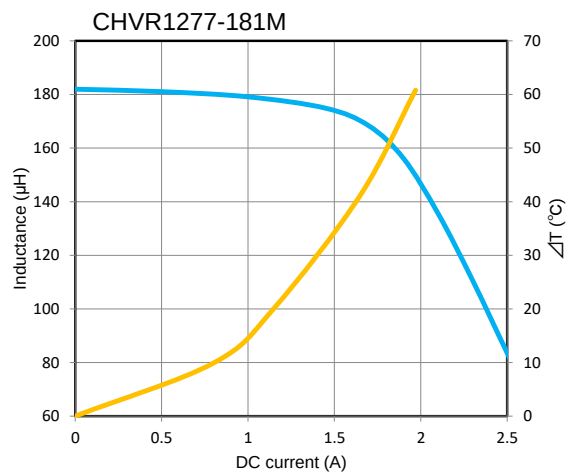
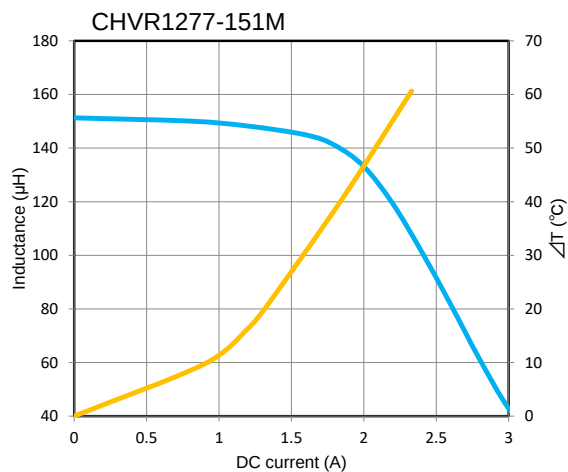
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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$ ■ ΔT



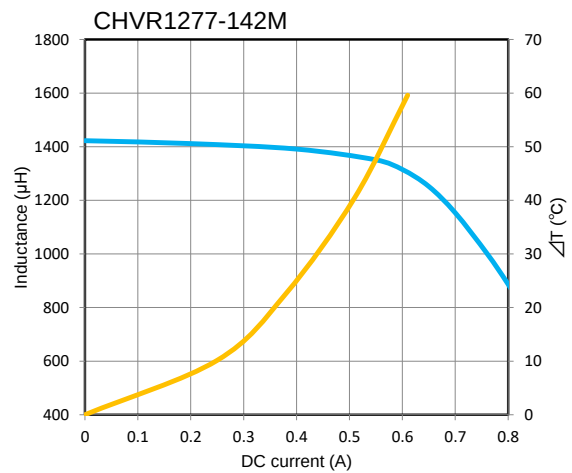
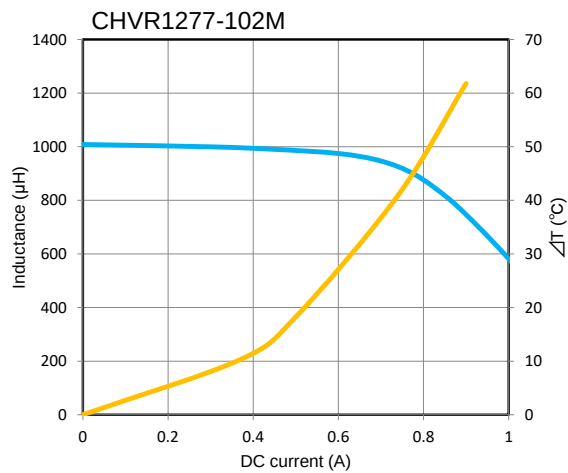
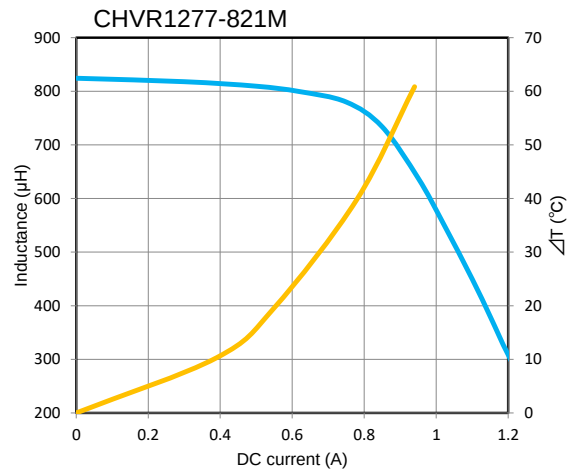
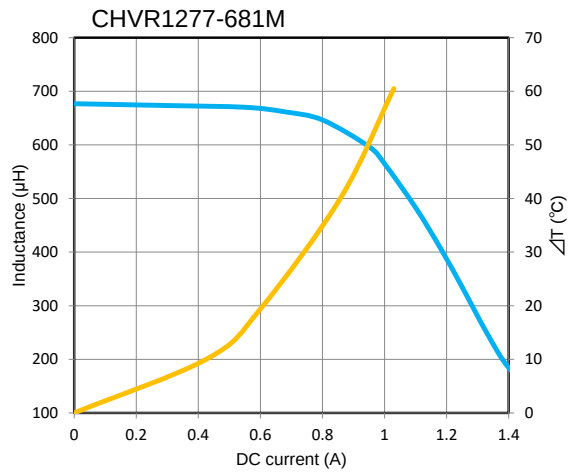
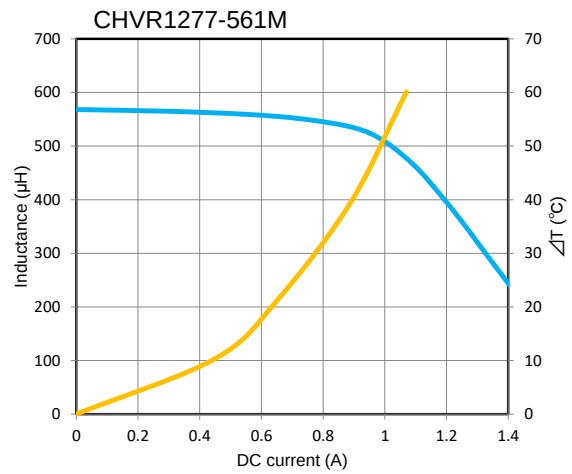
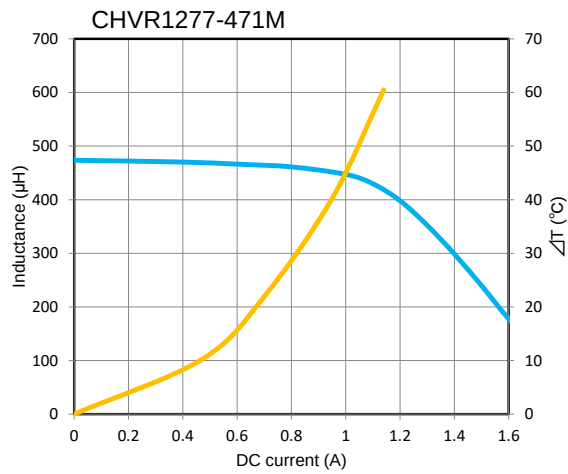
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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