

XRJ0420

NEW

AEC-Q200



■ Features

- Realization of small size and high current specifications by metallic magnetic material.
- Low DCR, high saturation current
- Decreased acoustic noise by there are no air gaps.
- Low inductance variance in temperature environments.
- Operating temperature : -40°C~+125°C(The self-heating is included)
- Withstand Voltage:40V

Magnetic structure :

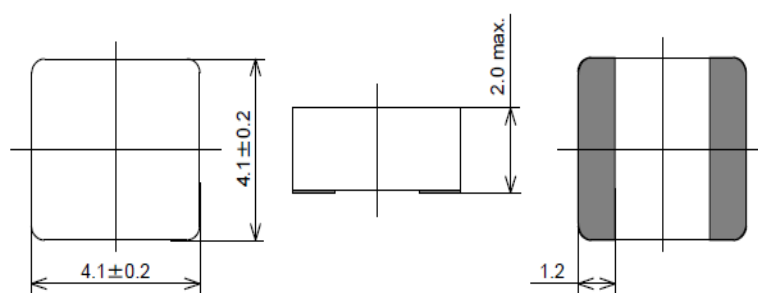
Mold

Weight : 0.2 g

■ Applications

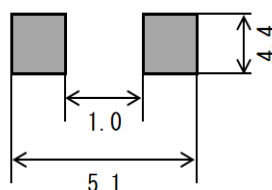
- Audio Visual/Camera,Recorder,TV and Monitor,Mini System, AV Amplifier, for Professionals
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Computer & Peripheral Device/Industrial Machines,Computer,Printer(MFP)
- Home Electronics/LED Lights
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (m Ω)		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
		max.	Typical		
XRJ0420-R08M	0.08 $\pm$ 20%	1.60	1.30	30.0	22.0
XRJ0420-R12M	0.12 $\pm$ 20%	1.60	1.30	24.0	22.0
XRJ0420-R24M	0.24 $\pm$ 20%	2.70	2.35	17.0	20.0
XRJ0420-R33M	0.33 $\pm$ 20%	3.85	3.20	11.5	17.5
XRJ0420-R47M	0.47 $\pm$ 20%	5.10	4.10	13.5	16.0
XRJ0420-R56M	0.56 $\pm$ 20%	6.30	5.50	11.0	14.0
XRJ0420-R68M	0.68 $\pm$ 20%	7.20	6.20	10.0	12.5
XRJ0420-1R0M	1 $\pm$ 20%	9.00	7.50	9.00	11.5
XRJ0420-1R2M	1.2 $\pm$ 20%	11.0	9.00	7.50	11.2
XRJ0420-1R5M	1.5 $\pm$ 20%	14.5	12.3	7.50	10.0
XRJ0420-2R2M	2.2 $\pm$ 20%	21.0	17.5	6.50	8.00
XRJ0420-3R3M	3.3 $\pm$ 20%	34.5	30.0	5.50	6.50
XRJ0420-4R7M	4.7 $\pm$ 20%	52.0	45.0	4.00	5.50

Inductance Measuring Condition:100kHz,1V

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

Temperature rise allowable current:The rise in temperature of core surface is 40°C



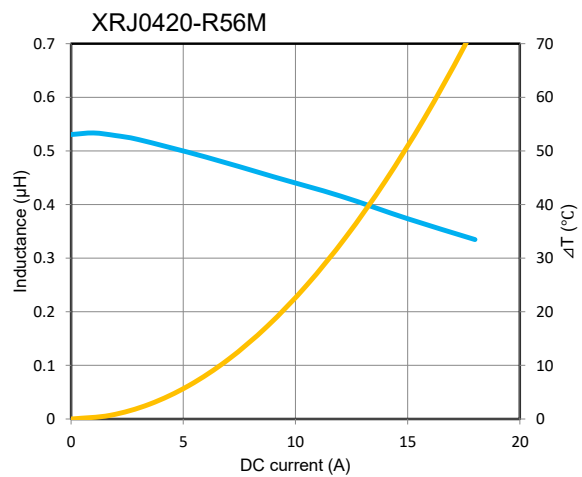
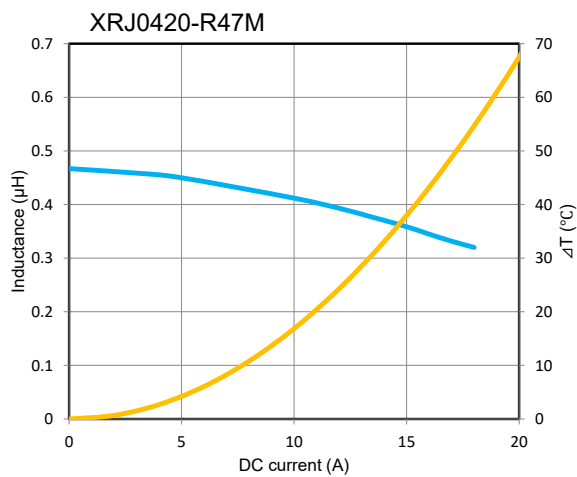
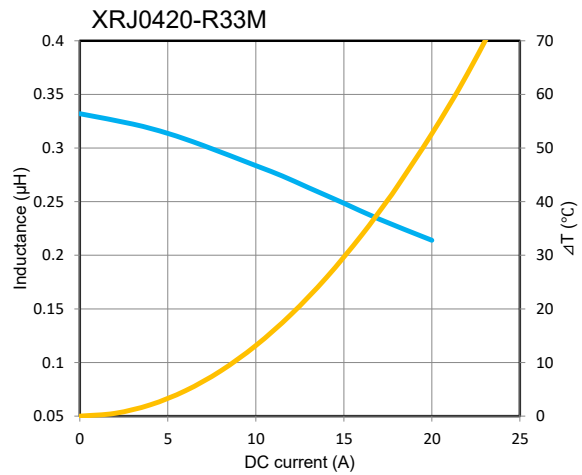
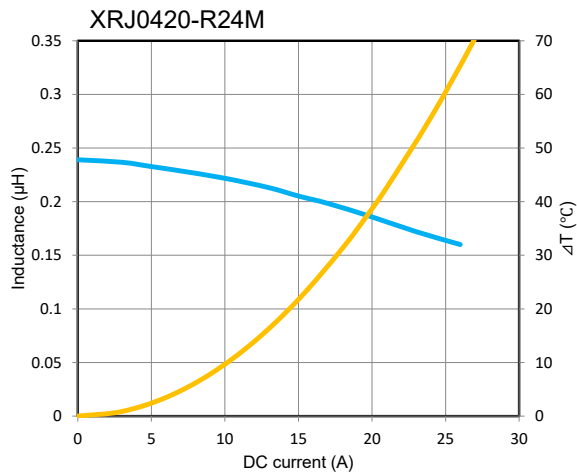
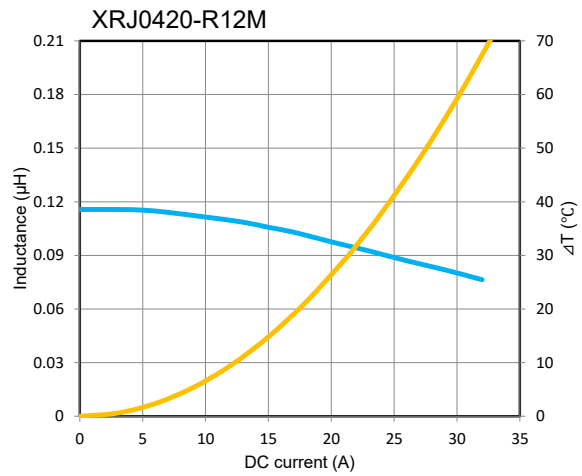
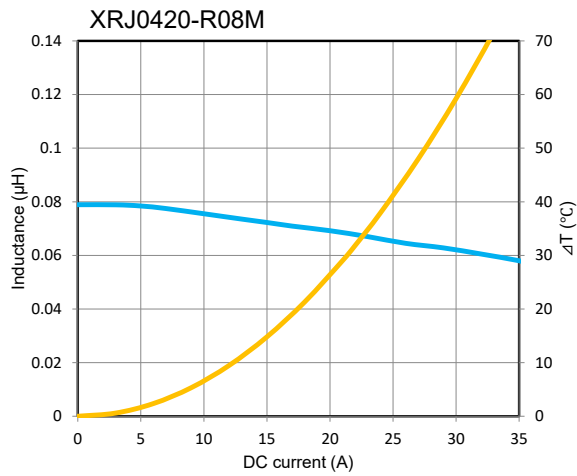
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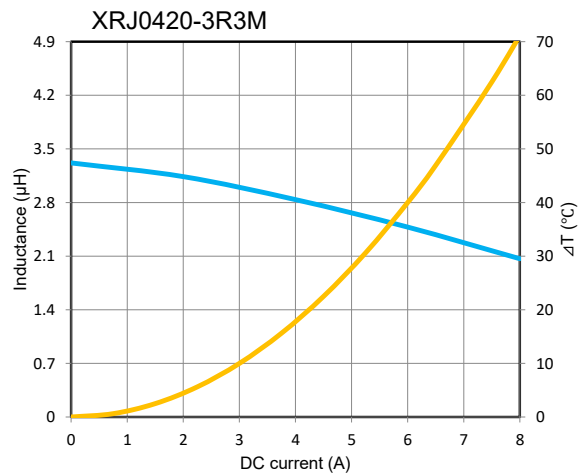
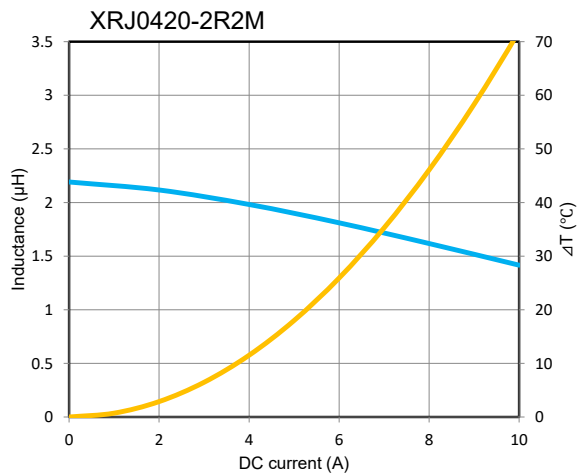
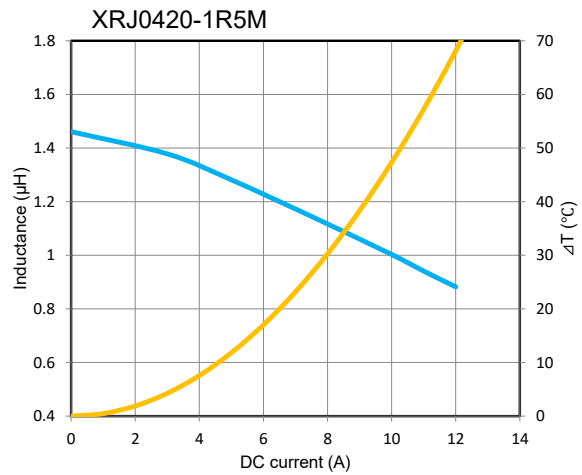
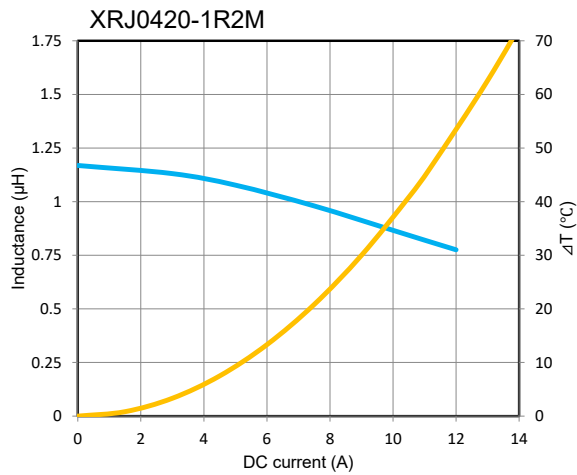
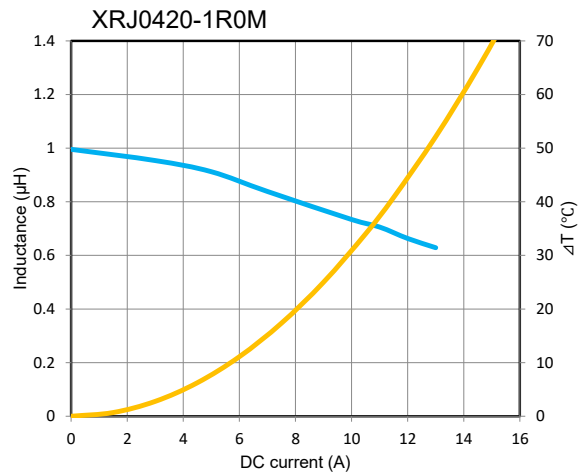
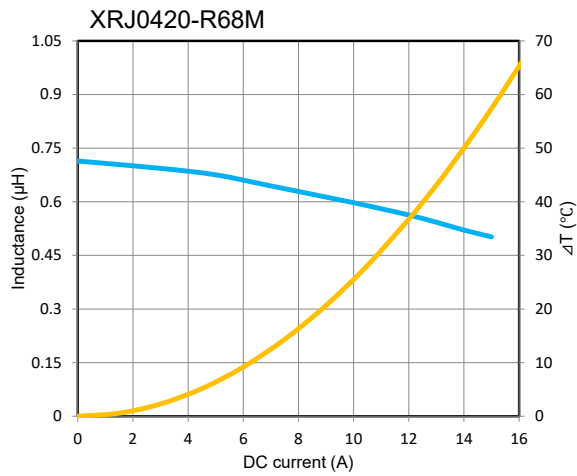
DC bias characteristics vs Temperature Rise Graph

— L(25°C)
 — ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$ — ΔT



DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT

