

# Metal Composite Power Inductors

XRJ2520

NEW

AEC-Q200



## ■ Features

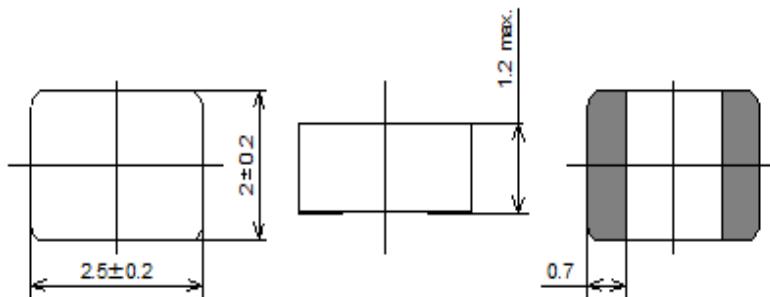
- Realization of small size and high current specifications by metallic magnetic material.
- Low DCR, high saturation current
- Decreased acoustic noise by there are no air gaps.
- Low inductance variance in temperature environments.
- Operating temperature : -40°C~+125°C(The self-heating is included)

Weight : 0.036~0.038 g

## ■ Applications

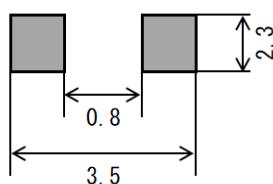
- Audio Visual/TV and Monitor,Mini System, AV Amplifier, for Professionals,Camera,Recorder
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Computer & Peripheral Device/Computer,Printer(MFP),Industorial Machines
- Home Electronics/LED Lights
- Others/Power Supply,FA,Medical,Energy

## ■ Dimensions



(Unit : mm)

## ■ Recommended Land Pattern



(Unit : mm)



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## ■ Specifications

SAGAMI Part No.	Inductance ( $\mu$ H)	DCR (m $\Omega$ )		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
		max.	Typical		
XRJ2520-R15M	0.15±20%	12.8	10.6	8.70	5.80
XRJ2520-R22M	0.22±20%	13.5	11.2	8.00	5.70
XRJ2520-R33M	0.33±20%	18.0	14.0	7.50	5.10
XRJ2520-R47M	0.47±20%	20.0	16.0	6.70	4.90
XRJ2520-R68M	0.68±20%	30.0	26.0	6.00	4.50
XRJ2520-1R0M	1±20%	40.0	32.0	5.50	4.10
XRJ2520-1R5M	1.5±20%	60.0	50.0	3.80	2.70
XRJ2520-2R2M	2.2±20%	84.0	70.0	3.50	2.60
XRJ2520-3R3M	3.3±20%	130.0	105.0	2.90	1.80
XRJ2520-4R7M	4.7±20%	200.0	165.0	2.10	1.50

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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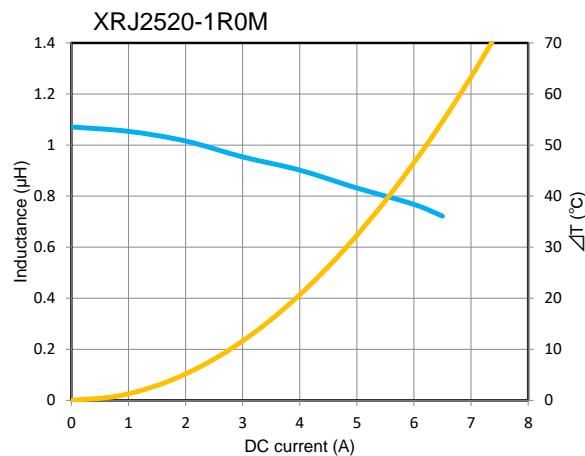
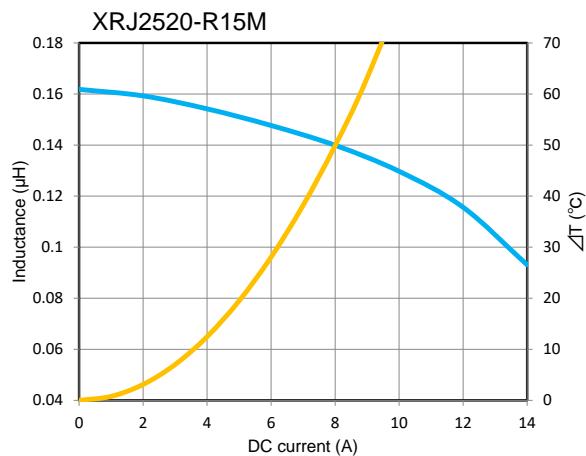
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## DC bias characteristics vs Temperature Rise Graph

L(25°C)

ΔT



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