

# XRJ0754

New Products

RoHS

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~+150°C(The self-heating is included)

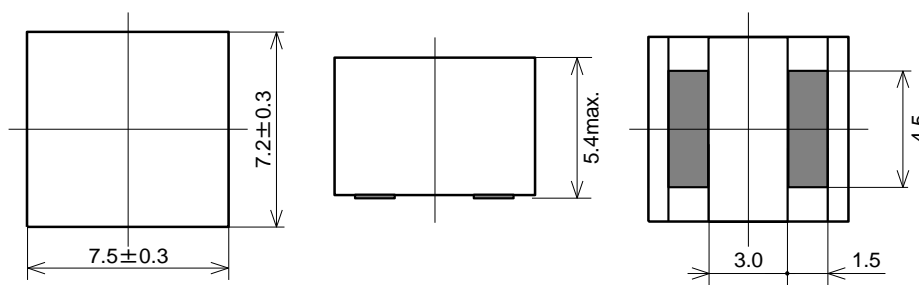
Operating Temperature Range : -40 °C~ +150 °C(include self-heating)

Weight : 1.7 g

## ■ Application

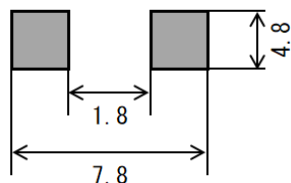
- Note PCs
- HDDs
- Servers
- VRMs
- Compact power supply modules
- Others

## ■ Dimensions



(Unit : mm)

## ■ Recommended Land Pattern



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

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## ■ Specifications

SAGAMI Part No.	Inductance ( $\mu$ H)	DCR Resistance		DC saturation allowable current (A)	Teperature rise allowable current (A)
		(m $\Omega$ )			
		Typical	max.		
XRJ0754-2R2M	2.2 $\pm$ 20%	5.40	6.40	15.0	13.0
XRJ0754-3R3M	3.3 $\pm$ 20%	8.50	9.70	12.5	12.5
XRJ0754-4R7M	4.7 $\pm$ 20%	9.20	10.5	9.50	9.50
XRJ0754-5R6M	5.6 $\pm$ 20%	14.1	17.2	9.00	8.50
XRJ0754-6R8M	6.8 $\pm$ 20%	16.0	18.0	7.50	8.00
XRJ0754-100M	10 $\pm$ 20%	22.0	25.0	6.00	5.00
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

- Inductance Measuring Condition : 100kHz,1V
- Rated current : DC saturation allowable current or Temperature rise allowable current,whichever is smaller.
  1. DC saturation allowable current : value of inductance decrease 30%.
  2. Temperature rise allowable current : A rise in temperature of core surface is 40°C.



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# DC bias characteristics vs Temperature Rise Graph

■ L(25°C)      ■  $\Delta T$

