

## XRJ3225M

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.

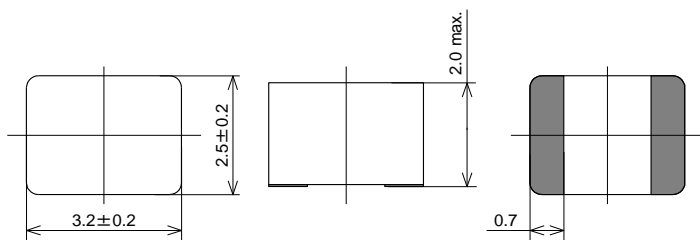
Operating Temperature Range : -40 °C~ +125 °C(include self-heating)

Weight : 0.1 g

### ■ Application

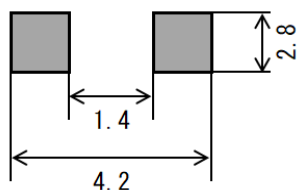
- Note PCs
- HDDs
- Servers
- VRMs
- Compact power supply modules
- Others

### ■ 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.		
XRJ3225M-2R2M	2.2 $\pm$ 20%	40.0	46.0	5.00	2.90
XRJ3225M-3R3M	3.3 $\pm$ 20%	57.0	65.0	4.20	2.30
XRJ3225M-6R8M	6.8 $\pm$ 20%	135.0	155.0	2.30	1.60
XRJ3225M-8R2M	8.2 $\pm$ 20%	191.0	220.0	2.00	1.20
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

- 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)



$\Delta T$

