



ROYAL ELECTRONIC FACTORY (THAILAND) CO.LTD.

20/1-2 Moo-2 Klong-Na , Muang , Chachoengsao 24000 THAILAND

Tel: 66 38 822 404 to 408 Fax: 66 38 824 245

export@royalohm.com www.royalohm.com



Certification

Currently, the chip resistor we supply meets overcoat Pb Free. It meets RoHS. **(DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)).**

Some glass materials used in the resistive elements of chip resistors and resistance film of Metal Glaze Film Resistors (MGR.) has Lead (Pb) content. Now, there is available 100% Lead-Free (Pb-Free) material for Chip Resistors; cost of 100% Lead-Free (Pb-Free) material is much higher. Total Lead-Free (Pb-Free) chip resistor series is classified as PF series. PF series is available upon request.

On the other hand, Lead (Pb) glass materials are still exempted in the RoHS directive *(refer to Annex III Applications exempted from the restriction in article 4(1)).*

Below is excerpt from EU Directive:

ANNEX III

Applications exempted from the restriction in article 4(1)

7(c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

Company : Royal Electronic Factory (Thailand) Co., Ltd.

Title : Quality Manager

Signed by : Mr. Polthanasan Supapol

Signature :

Date : February 20, 2024