

## ■ PRODUCTION IDENTIFICATION

- **PRODUCT NAME:** Complete PbO-Free Thick Film Chip Resistor - RL04  
 - **MANUFACTURE NAME:** Cal-Chip Electronics Inc.  
 - **ADDRESS:** 59 Steamwhistle Drive Ivyland, PA 18974  
 - **RESPONSIBLE PERSON NAME:** Frank Salamone  
 - **TELEPHONE:** 215.942.8900

## ■ GENERAL COMPOSITION

PART NAME	SUBSTANCE	SUBSTANCE PERCENT (%)	CAS NO.
		RL04/0.60485mg	
Alumina Substrate	Al <sub>2</sub> O <sub>3</sub>	80.850	1344-28-1
	SiO <sub>2</sub>	1.4974	14808-60-7
	MgO	0.6655	1309-48-4
	CaO	0.1663	1305-78-8
Protective Coating (G1)	Bi <sub>2</sub> O <sub>3</sub>	0.6104	1304-76-3
	SiO <sub>2</sub>	0.3052	14808-60-7
	Cr <sub>2</sub> O <sub>3</sub>	0.0458	1308-38-9
Protective Coating (G2)	Epoxy Resin	0.5628	25068-38-6
	Silica	0.6752	60676-86-0
	Talcum	0.2250	14807-96-6
Resistive Element	Phosphate Ester	0.0271	68511-37-5
	Terpineol	0.1521	8000-41-7
	Bisphenol A-Epichlorohydrin Resin	0.0271	25068-38-6
	RuO <sub>2</sub>	0.1521	12036-10-1
	Glass	0.1848	65997-18-4
Termination (inner) C1	Ag	1.1998	7440-22-4
	Pd	0.0086	7440-05-3
	Glass	0.0686	65997-18-4
Termination (inner) C2	Ag	0.7637	7440-22-4
	Glass	0.1141	65997-18-4
Termination (inner) C3	Ni	0.0093	7440-02-0
	Cr	0.0023	7440-47-3
Termination (between) Ni Plating	Ni	5.8857	7440-02-0
Termination (outer) Sn Plating	Sn	5.7931	7440-31-5
M/K	Epoxy Resin	/	25068-38-6
	TiO <sub>2</sub>	/	13463-67-7
	BaSo <sub>4</sub>	/	7727-43-7
TOTAL		100	