

## PRODUCTION IDENTIFICATION

- **PRODUCT NAME:** Complete PbO-Free Thick Film Chip Resistor - RL14  
 - **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.
		RL14/14.8187mg	
Alumina Substrate	Al <sub>2</sub> O <sub>3</sub>	86.8519	1344-28-1
	SiO <sub>2</sub>	1.6084	14808-60-7
	MgO	0.7148	1309-48-4
	CaO	0.1787	1305-78-8
Protective Coating (G1)	Bi <sub>2</sub> O <sub>3</sub>	0.6774	1304-76-3
	SiO <sub>2</sub>	0.3387	14808-60-7
	Cr <sub>2</sub> O <sub>3</sub>	0.0508	1308-38-9
Protective Coating (G2)	Epoxy Resin	0.7439	25068-38-6
	Silica	0.8924	60676-86-0
	Talcum	0.2974	14807-96-6
Resistive Element	Phosphate Ester	0.0320	68511-37-5
	Terpineol	0.1792	8000-41-7
	Bisphenol A-Epichlorohydrin Resin	0.0320	25068-38-6
	RuO <sub>2</sub>	0.1792	12036-10-1
	Glass	0.2177	65997-18-4
Termination (inner) C1	Ag	0.8697	7440-22-4
	Pd	0.0062	7440-05-3
	Glass	0.0310	65997-18-4
Termination (inner) C2	Ag	0.2437	7440-22-4
	Glass	0.0364	65997-18-4
Termination (inner) C3	Ni	0.5992	7440-02-0
	Cr	0.1498	7440-47-3
Termination (between) Ni Plating	Ni	2.4204	7440-02-0
Termination (outer) Sn Plating	Sn	2.3823	7440-31-5
M/K	Epoxy Resin	0.1334	25068-38-6
	TiO <sub>2</sub>	0.0800	13463-67-7
	BaSo <sub>4</sub>	0.0533	7727-43-7
TOTAL		100	