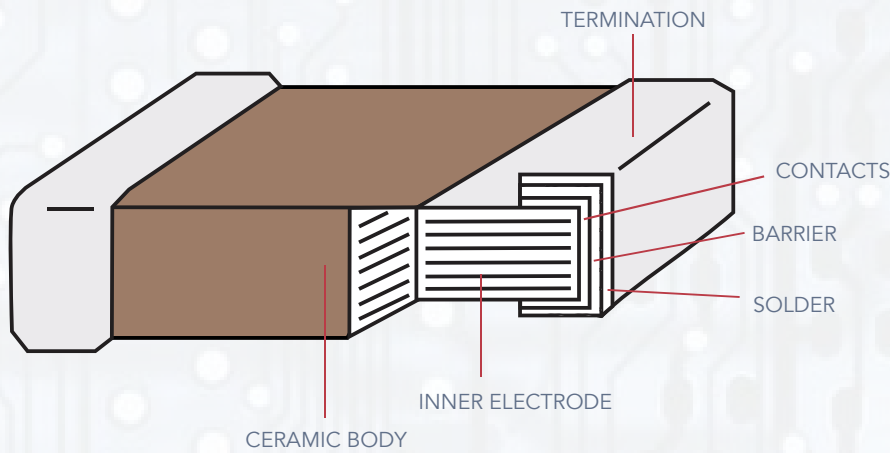


PRODUCTION IDENTIFICATION

- PRODUCT NAME	Capacitor (MLCC)
- TYPE	GMC31
- SIZE	C0G
- SERIES	1206
- WEIGHT	19.1 (max)
- MANUFACTURE NAME	Cal-Chip Electronics Inc.
- ADDRESS	59 Steamwhistle Drive Ivyland, PA 18974
- RESPONSIBLE PERSON NAME	Frank Salamone
- TELEPHONE	215.942.8900

GENERAL COMPOSITION

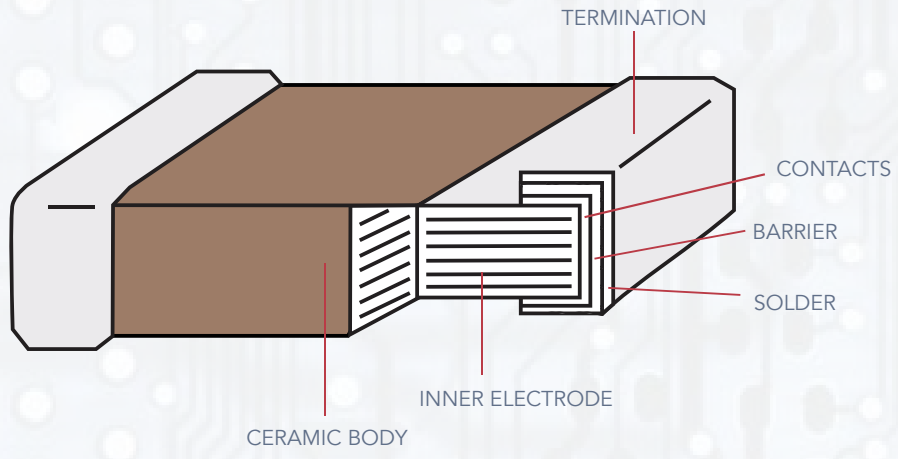


PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner electrode	Ni	0.27	1.45	1.41	7440-02-0
	Dielectric	Calcium Magnesium Titanate	18.32	98.55	95.91	12032-30-3 7439-95-4 12049-50-2
SUBTOTAL			18.59	100	97.31	
Termination	Contact with Ceramic	Cu	0.337	65.70	1.77	7440-50-8
	Barrier Layer	Ni	0.035	6.82	0.18	7440-02-0
	Solder Plating	Sn	0.141	27.48	0.74	7440-31-5
SUBTOTAL			0.51	100	2.69	
ALL PARTS TOTAL			19.1		100	

PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC31
- SIZE X7R
- SERIES 1206
- WEIGHT 21.5 (max)
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive Ivyland, PA 18974
- RESPONSIBLE PERSON NAME Frank Salamone
- TELEPHONE 215.942.8900

GENERAL COMPOSITION



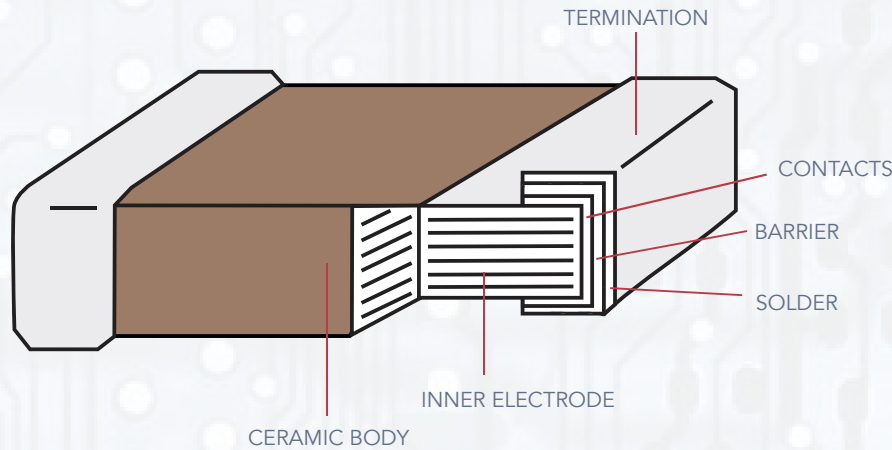
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	0.96	4.57	4.47	7440-02-0
	Dielectric	BaTiO ₃	20.03	95.43	93.14	12047-27-7
SUBTOTAL			20.99	100	97.61	
Termination	Contact with Ceramic	Cu	0.337	65.45	1.57	7440-50-8
	Barrier Layer	Ni	0.037	7.18	0.17	7440-02-0
	Solder Plating	Sn	0.141	27.37	0.66	7440-31-5
SUBTOTAL			0.52	100	2.40	
ALL PARTS TOTAL			21.5		100	



PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC31
- SIZE X5R
- SERIES 1206
- WEIGHT 51.1 (max)
- 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	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	14.98	29.76	29.31	7440-02-0
	Dielectric	BaTiO ₃	35.34	70.24	69.16	12047-27-7
SUBTOTAL			50.32	100	98.47	
Termination	Contact with Ceramic	Cu	0.603	77.21	1.18	7440-50-8
	Barrier Layer	Ni	0.037	4.74	0.07	7440-02-0
	Solder Plating	Sn	0.141	18.05	0.28	7440-31-5
SUBTOTAL			0.78	100	1.53	
ALL PARTS TOTAL			51.1		100	

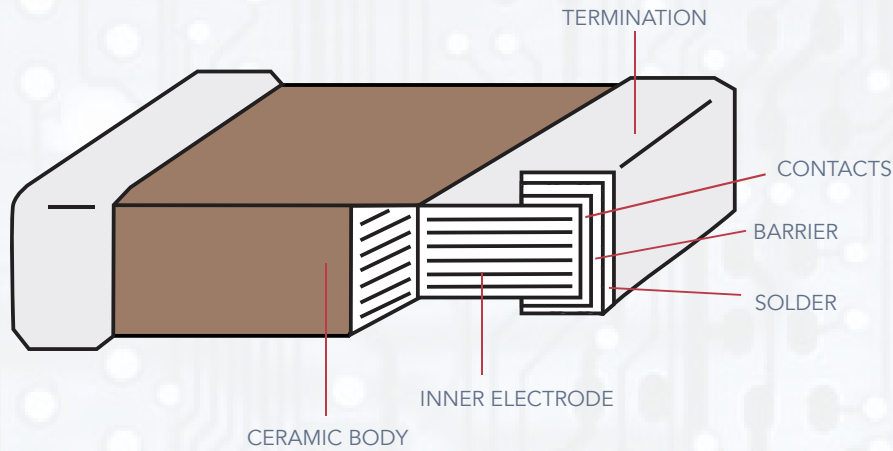
Several additives are included in ceramic body. Any environmentally prohibited material is not included in additives. It is difficult to reveal the precise chemical composition and content of each additive due to each MLCC maker's know-how.

Date: March 15th, 2005

PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC31
- SIZE Y5V
- SERIES 1206
- WEIGHT 21.53 (max)
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive Ivyland, PA 18974
- RESPONSIBLE PERSON NAME Frank Salamone
- TELEPHONE 215.942.8900

GENERAL COMPOSITION



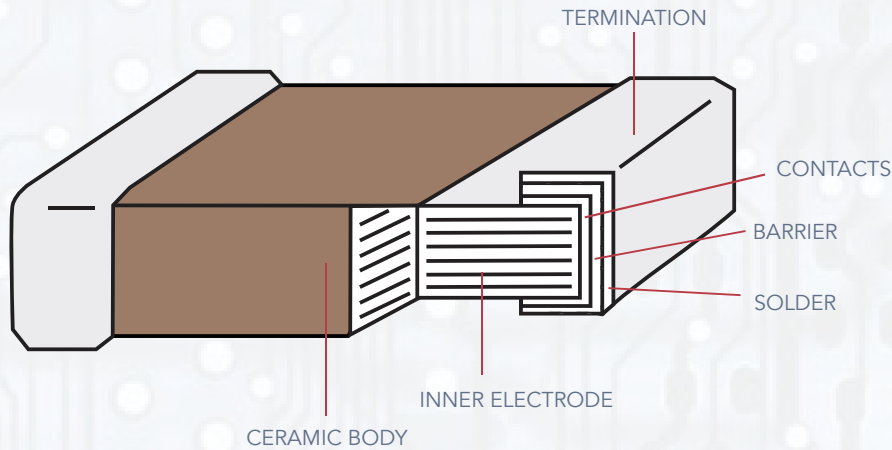
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	3.76	18.02	17.48	7440-02-0
	Dielectric	BaTiO ₃	17.12	81.98	79.53	12047-27-7
SUBTOTAL			20.89	100	97.01	
Termination	Contact with Ceramic	Cu	0.445	68.97	2.06	7440-50-8
	Barrier Layer	Ni	0.059	9.15	0.27	7440-02-0
	Solder Plating	Sn	0.141	21.88	0.65	7440-31-5
SUBTOTAL			0.64	100	2.99	
ALL PARTS TOTAL			21.53		100	



PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC31
- SIZE Z5U
- SERIES 1206
- WEIGHT 21.53 (max)
- 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	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	3.76	18.02	17.48	7440-02-0
	Dielectric	BaTiO ₃	17.12	81.98	79.53	12047-27-7
SUBTOTAL			20.89	100	97.01	
Termination	Contact with Ceramic	Cu	0.445	68.97	2.06	7440-50-8
	Barrier Layer	Ni	0.059	9.15	0.27	7440-02-0
	Solder Plating	Sn	0.141	21.88	0.65	7440-31-5
SUBTOTAL			0.64	100	2.99	
ALL PARTS TOTAL			21.53		100	