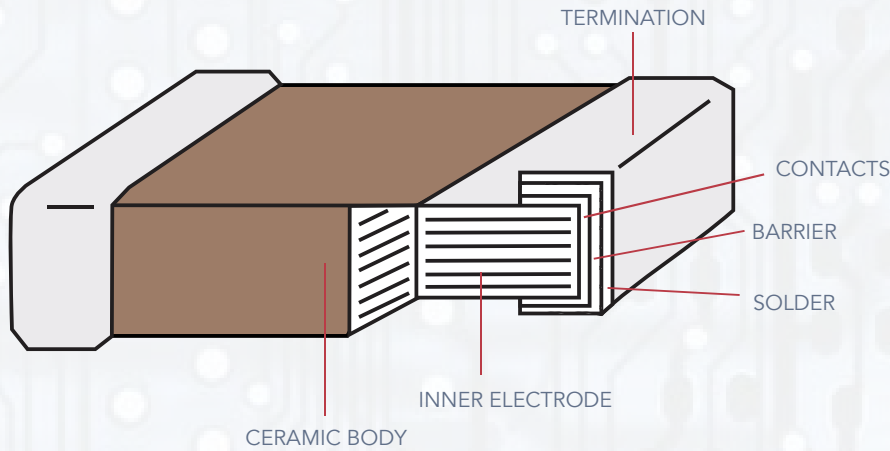


PRODUCTION IDENTIFICATION

- PRODUCT NAME	Capacitor (MLCC)
- TYPE	GMC04
- SIZE	C0G
- SERIES	0402
- WEIGHT	1.32 (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

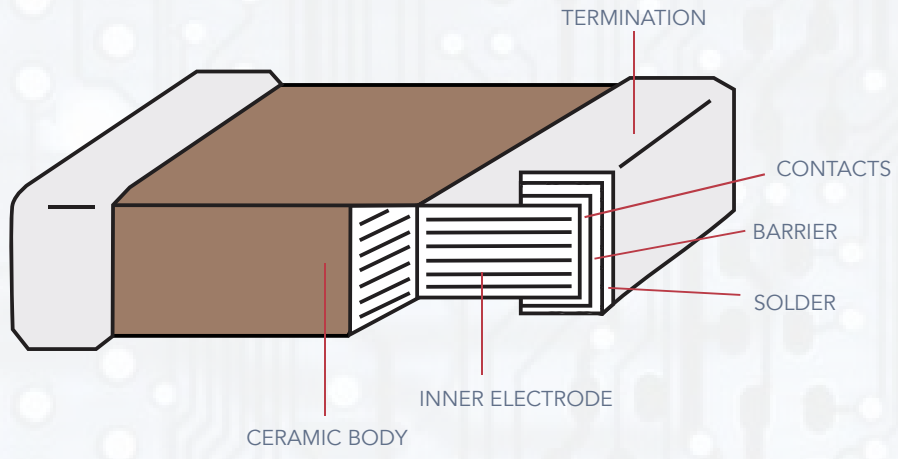


PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner electrode	Ni	0.13	10.09	9.66	7440-02-0
	Dielectric	Calcium Magnesium Titanate	1.14	89.91	86.08	12032-30-3 7439-95-4 12049-50-2
	SUBTOTAL		1.27	100.00	95.74	
Termination	Contact with Ceramic	Cu	0.025	44.004	1.875	7440-50-8
	Barrier Layer	Ni	0.013	22.754	0.970	7440-02-0
	Solder Plating	Sn	0.019	33.242	1.417	7440-31-5
SUBTOTAL		0.06	100.00	4.26		
ALL PARTS TOTAL			1.32		100	

PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC04
- SIZE X7R
- SERIES 0402
- WEIGHT 1.4 (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



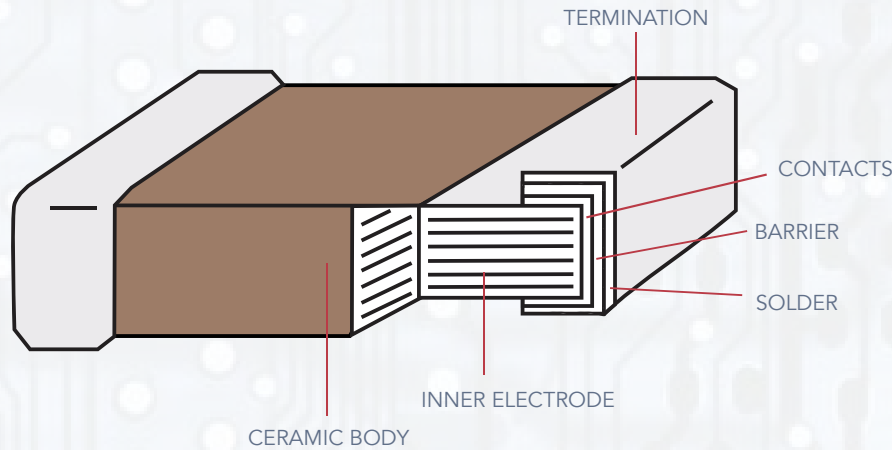
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	0.24	18.05	17.33	7440-02-0
	Dielectric	BaTiO ₃	1.10	81.95	78.65	12047-27-7
SUBTOTAL			1.34	100	95.98	
Termination	Contact with Ceramic	Cu	0.025	44.00	1.77	7440-50-8
	Barrier Layer	Ni	0.013	22.75	0.91	7440-02-0
	Solder Plating	Sn	0.019	33.24	1.34	7440-31-5
SUBTOTAL			0.06	100	4.02	
ALL PARTS TOTAL			1.4		100	



PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC04
- SIZE X5R
- SERIES 0402
- WEIGHT 1.6 (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	0.21	13.36	12.89	7440-02-0
	Dielectric	BaTiO ₃	1.34	86.64	83.59	12047-27-7
SUBTOTAL			1.55	100	96.48	
Termination	Contact with Ceramic	Cu	0.025	44.00	1.55	7440-50-8
	Barrier Layer	Ni	0.013	22.75	0.80	7440-02-0
	Solder Plating	Sn	0.019	33.24	1.17	7440-31-5
SUBTOTAL			0.06	100	3.52	
ALL PARTS TOTAL			1.6		100	

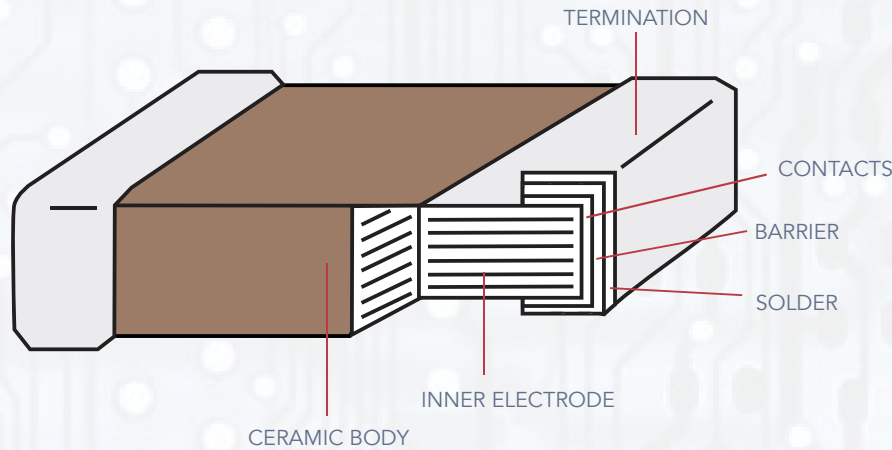
Several additives are included in ceramic body. Any environmentally prohibited material is not included in addition. It is difficult to reveal the precise chemical composition and content of each additive due to each MLCC maker's

Date : March 15th, 2005

PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC04
- SIZE X5R
- SERIES 0402
- WEIGHT 1.6 (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	0.21	13.36	12.89	7440-02-0
	Dielectric	BaTiO ₃	1.34	86.64	83.59	12047-27-7
SUBTOTAL			1.55	100	96.48	
Termination	Contact with Ceramic	Cu	0.025	44.00	1.55	7440-50-8
	Barrier Layer	Ni	0.013	22.75	0.80	7440-02-0
	Solder Plating	Sn	0.019	33.24	1.17	7440-31-5
SUBTOTAL			0.06	100	3.52	
ALL PARTS TOTAL			1.6		100	

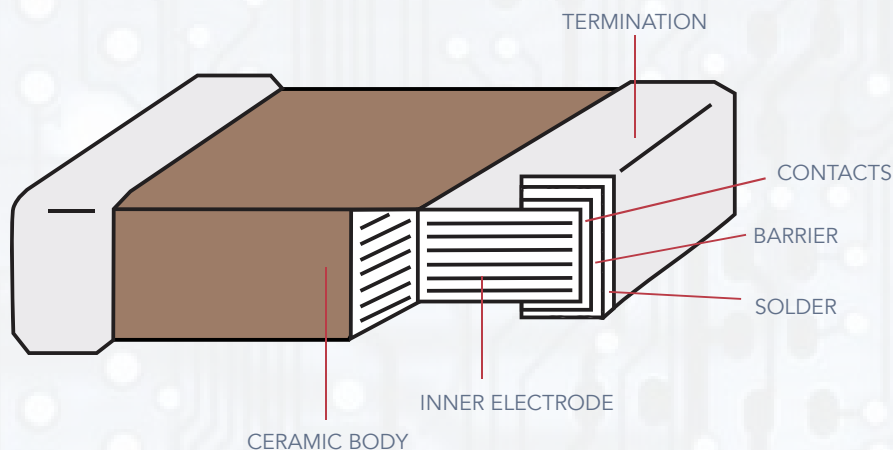
Several additives are included in ceramic body. Any environmentally prohibited material is not included in addition. It is difficult to reveal the precise chemical composition and content of each additive due to each MLCC maker's

Date : March 15th, 2005

PRODUCTION IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- TYPE GMC04
- SIZE Y5V
- SERIES 0402
- WEIGHT 1.8 (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	0.18	10.32	10.00	7440-02-0
	Dielectric	BaTiO ₃	1.56	89.68	86.87	12047-27-7
SUBTOTAL			1.74	100	96.87	
Termination	Contact with Ceramic	Cu	0.025	44.00	1.38	7440-50-8
	Barrier Layer	Ni	0.013	22.75	0.71	7440-02-0
	Solder Plating	Sn	0.019	33.24	1.04	7440-31-5
SUBTOTAL			0.06	100	3.13	
ALL PARTS TOTAL			1.8		100	

