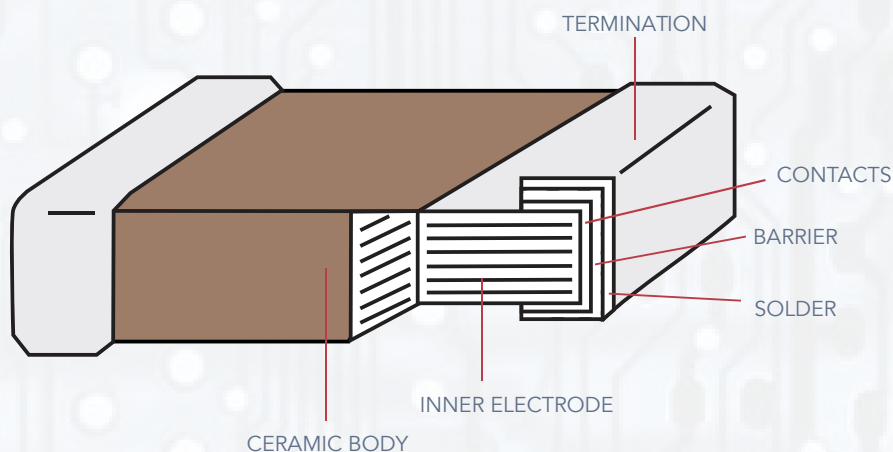


## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         C0G
- MANUFACTURE NAME             4.7 (max)
- ADDRESS                             Cal-Chip Electronics Inc.
- RESPONSIBLE PERSON NAME   59 Steamwhistle Drive Ivyland, PA 18974
- TELEPHONE                         Frank Salamone
- 215.942.8900

## GENERAL COMPOSITION



PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	0.38	8.44	8.17	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	4.16	91.56	88.61	12047-27-7
SUBTOTAL			4.55	100	96.78	
Termination	Contact with Ceramic	Cu	0.109	72.03	2.32	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.46	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.44	7440-31-5
SUBTOTAL			0.15	100	3.22	
ALL PARTS TOTAL			4.70		100	

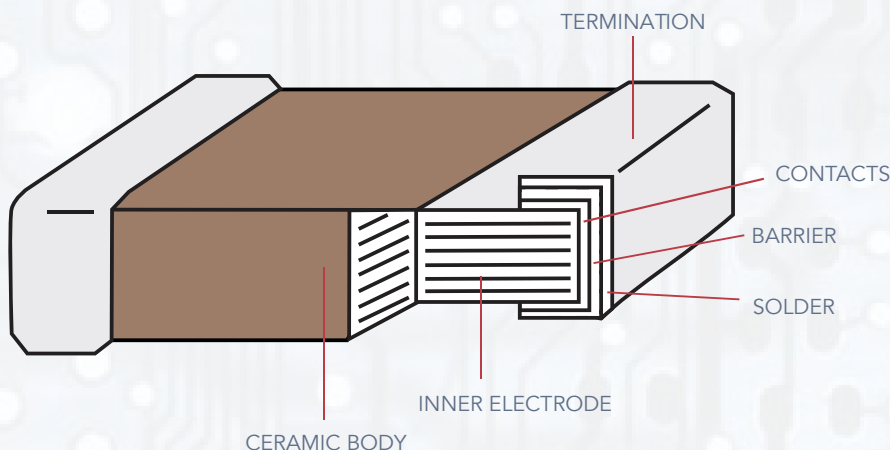
# MATERIAL DECLARATION

GMC10-X7R

## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                        X7R
- WEIGHT                                6.1 (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



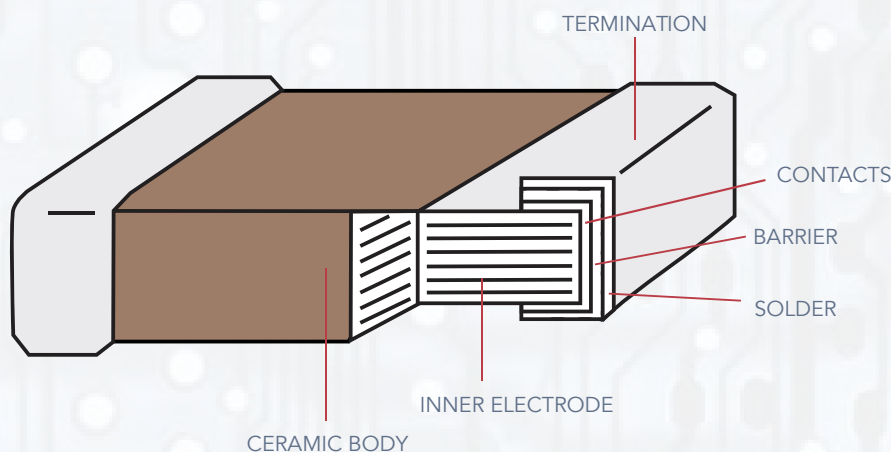
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	1.51	25.34	24.71	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	4.44	74.66	72.81	12047-27-7
SUBTOTAL			5.95	100	97.52	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.78	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.35	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.34	7440-31-5
SUBTOTAL			0.15	100	2.48	
ALL PARTS TOTAL			6.10		100	



## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         X7S
- MANUFACTURE NAME            6.1 (max)
- ADDRESS                             Cal-Chip Electronics Inc.
- RESPONSIBLE PERSON NAME    59 Steamwhistle Drive Ivyland, PA 18974
- TELEPHONE                         Frank Salamone
- 215.942.8900

## GENERAL COMPOSITION



PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	1.51	25.34	24.71	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	4.44	74.66	72.81	12047-27-7
SUBTOTAL			5.95	100	97.52	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.78	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.35	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.34	7440-31-5
SUBTOTAL			0.15	100	2.48	
ALL PARTS TOTAL			6.10		100	

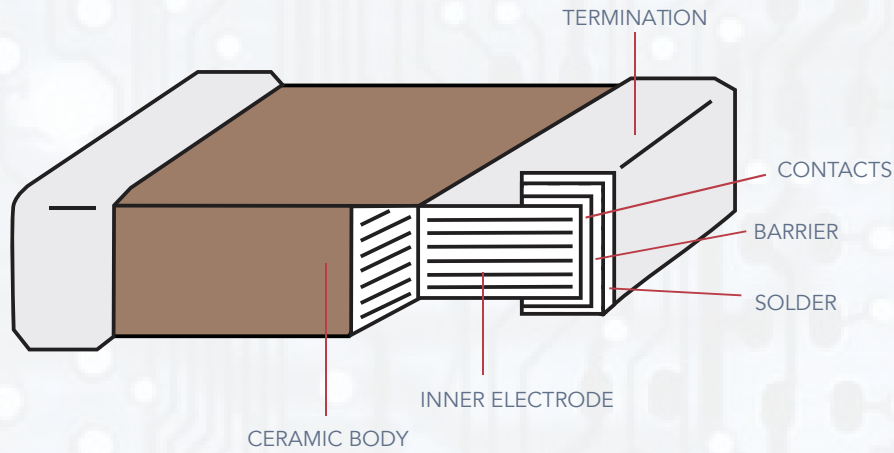
# MATERIAL DECLARATION

GMC10-X6S

## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         X6S
- WEIGHT                                6.6 (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



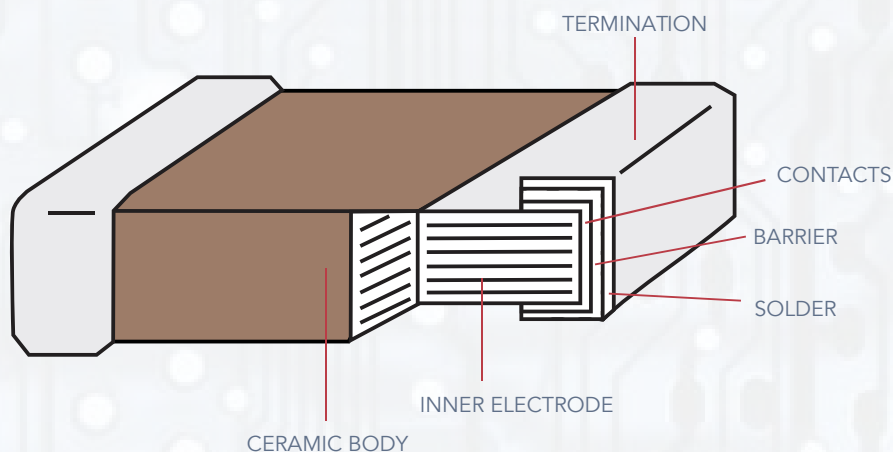
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	1.30	20.10	19.64	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	5.15	79.90	78.07	12047-27-7
SUBTOTAL			6.45	100	97.71	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.65	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.33	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.32	7440-31-5
SUBTOTAL			0.15	100	2.29	
ALL PARTS TOTAL			6.6		100	



## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         X5R
- MANUFACTURE NAME            6.6 (max)
- ADDRESS                             Cal-Chip Electronics Inc.
- RESPONSIBLE PERSON NAME    59 Steamwhistle Drive Ivyland, PA 18974
- TELEPHONE                         Frank Salamone
- 215.942.8900

## GENERAL COMPOSITION



PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	1.30	20.10	19.64	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	5.15	79.90	78.07	12047-27-7
SUBTOTAL			6.45	100	97.71	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.65	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.33	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.32	7440-31-5
SUBTOTAL			0.15	100	2.29	
ALL PARTS TOTAL			6.6		100	

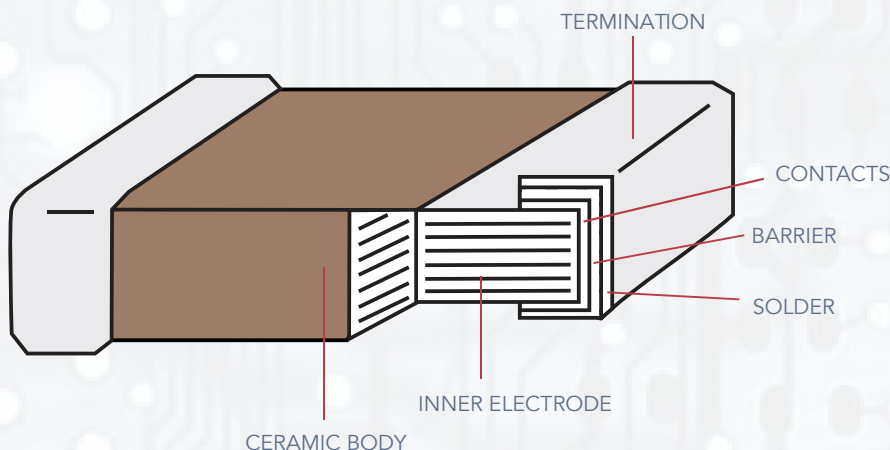
# MATERIAL DECLARATION

GMC10-Y5V

## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         Y5V
- WEIGHT                                5.6 (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



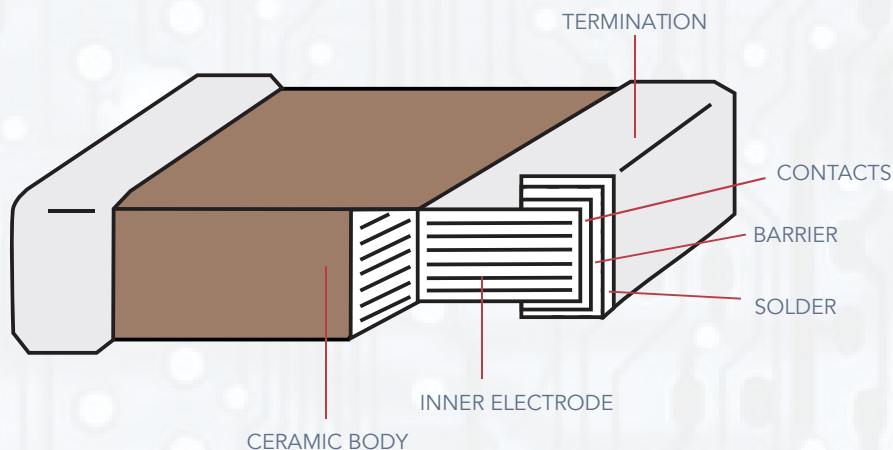
PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	0.10	17.43	16.96	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	4.50	82.57	80.34	12047-27-7
SUBTOTAL			5.45	100	97.30	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.94	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.38	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.37	7440-31-5
SUBTOTAL			0.15	100	2.70	
ALL PARTS TOTAL			5.60		100	



## PRODUCT IDENTIFICATION

- PRODUCT NAME                      Capacitor (MLCC)
- SERIES                                GMC10
- SIZE                                    0603
- DIALECTRIC                         Z5U
- MANUFACTURE NAME             5.6 (max)
- ADDRESS                             Cal-Chip Electronics Inc.
- RESPONSIBLE PERSON NAME    59 Steamwhistle Drive Ivyland, PA 18974
- TELEPHONE                         Frank Salamone
- 215.942.8900

## GENERAL COMPOSITION



PART	MATERIAL		WEIGHT (mg)	% OF PART	% OF COMPONENT	CAS NO.
Body	Inner Electrode	Ni	0.10	17.43	16.96	7440-02-0
	Dielectric	CaTiO <sub>3</sub>	4.50	82.57	80.43	12047-27-7
SUBTOTAL			5.45	100	97.30	
Termination	Contact with Ceramic	Cu	0.109	72.03	1.94	7440-50-8
	Barrier Layer	Ni	0.021	14.21	0.38	7440-02-0
	Solder Plating	Sn	0.021	13.76	0.37	7440-31-5
SUBTOTAL			0.15	100	2.70	
ALL PARTS TOTAL			5.60		100	