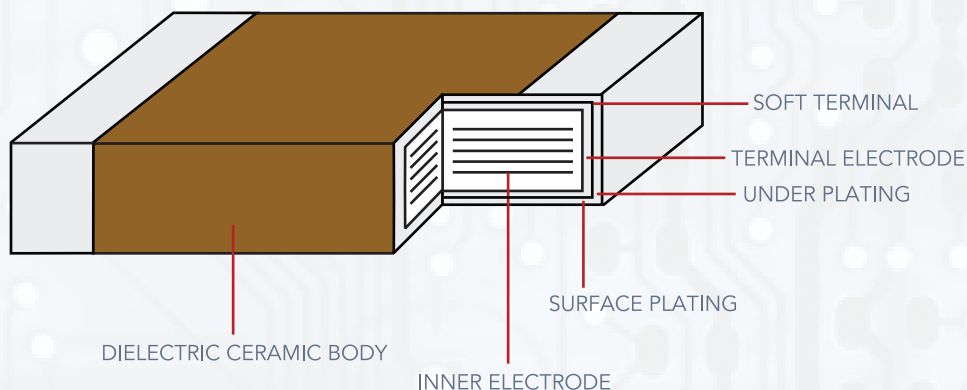


MATERIAL DECLARATION

PRODUCT IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- SERIES GUQ
- SIZE 0201
- DIELECTRIC NPO
- WEIGHT 0.24 mg
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive, Ivyland, PA 18974

GENERAL COMPOSITION



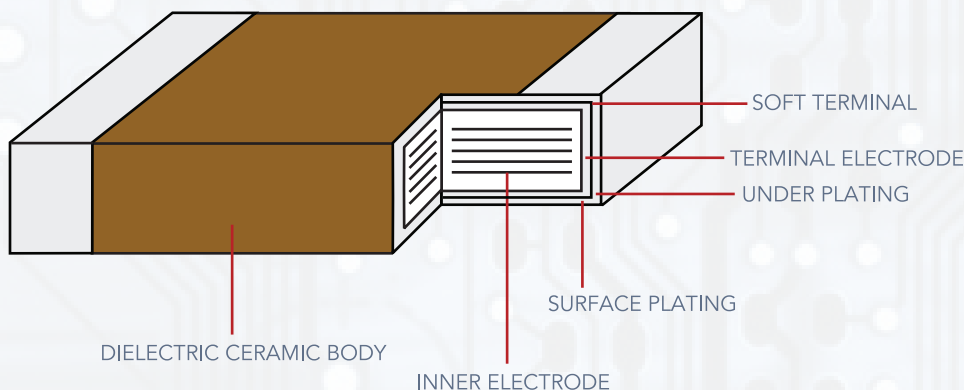
COMPOSITION OF PARTS		COMPOSITION OF MATERIALS					CLASSIFICATION	TYPICAL WEIGHT			P/N
MATERIAL NAME	TYPICAL WT % IN PRODUCT	SUBSTANCE NAME	TYPICAL WT % IN MATERIAL	SUBSTANCE NAME	TYPICAL WT % IN PRODUCT	CAS NO.	USE / PURPOSE OF MATERIAL	SUBSTANCE WEIGHT (MG)	MATERIAL WEIGHT (MG)	PRODUCT WEIGHT (MG)	PRODUCT
Dielectric Ceramic Body	81.9	Barium Titanate	68	Barium Titanate (IV)	55.6920	12047-27-7	Ceramic	0.1337	0.1966	0.24	NPO 0201 GUQ Series
		Titanic Oxide	21	Titanic Oxide	17.1990	13463-67-7		0.0413			
		Lead Free Glass	11	Lead Free Glass Frit	9.0090	65997-18-4		0.0216			
Inner Electrode	6.3	Copper	88	Copper	5.5440	7440-50-8	Cu paste	0.0133	0.0151		
		Lead Free Glass	12	Lead Free Glass Frit	0.7560	65997-18-4		0.0018			
Terminal Electrode	6	Copper	88	Copper	5.2800	7440-50-8	Cu paste	0.0127	0.0144		
		Lead Free Glass	12	Lead Free Glass Frit	0.7200	65997-18-4		0.0017			
Under Plating	4.5	Nickel	100	Nickel	4.5000	7440-02-0	Ni plating	0.0108	0.0108		
Surface Plating	1.3	Matte Sn	100	Matte Sn	1.3000	7440-31-5	Sn plating	0.0031	0.0031		

MATERIAL DECLARATION

PRODUCT IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- SERIES GUQ
- SIZE 0402
- DIELECTRIC NPO
- WEIGHT 1.216 mg
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive Ivyland, PA 18974

GENERAL COMPOSITION



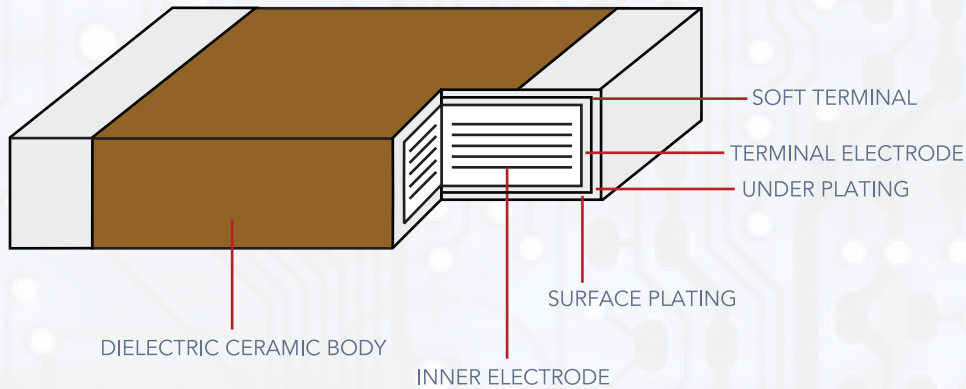
COMPOSITION OF PARTS		COMPOSITION OF MATERIALS					CLASSIFICATION	TYPICAL WEIGHT			P/N
MATERIAL NAME	TYPICAL WT % IN PRODUCT	SUBSTANCE NAME	TYPICAL WT % IN MATERIAL	SUBSTANCE NAME	TYPICAL WT % IN PRODUCT	CAS NO.	USE / PURPOSE OF MATERIAL	SUBSTANCE WEIGHT (MG)	MATERIAL WEIGHT (MG)	PRODUCT WEIGHT (MG)	PRODUCT
Dielectric Ceramic Body	81.9	Barium Titanate	68	Barium Titanate (IV)	55.6920	12047-27-7	Ceramic	0.6773	0.9959	1.216	NPO 0402 GUQ Series
		Titanic Oxide	21	Titanic Oxide	17.1990	13463-67-7		0.2091			
		Lead Free Glass	11	Lead Free Glass Frit	9.0090	65997-18-4		0.1095			
Inner Electrode	6.3	Copper	88	Copper	5.5440	7440-50-8	Cu paste	0.0674	0.0766		
		Lead Free Glass	12	Lead Free Glass Frit	0.7560	65997-18-4		0.0092			
Terminal Electrode	6	Copper	88	Copper	5.2800	7440-50-8	Cu paste	0.0642	0.073		
		Lead Free Glass	12	Lead Free Glass Frit	0.7200	65997-18-4		0.0088			
Under Plating	4.5	Nickel	100	Nickel	4.5000	7440-02-0	Ni plating	0.0547	0.0547		
Surface Plating	1.3	Matte Sn	100	Matte Sn	1.3000	7440-31-5	Sn plating	0.0158	0.0158		



PRODUCT IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- SERIES GUQ
- SIZE 0603
- DIELECTRIC NPO
- WEIGHT 4.754 mg
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive Ivyland, PA 18974

GENERAL COMPOSITION



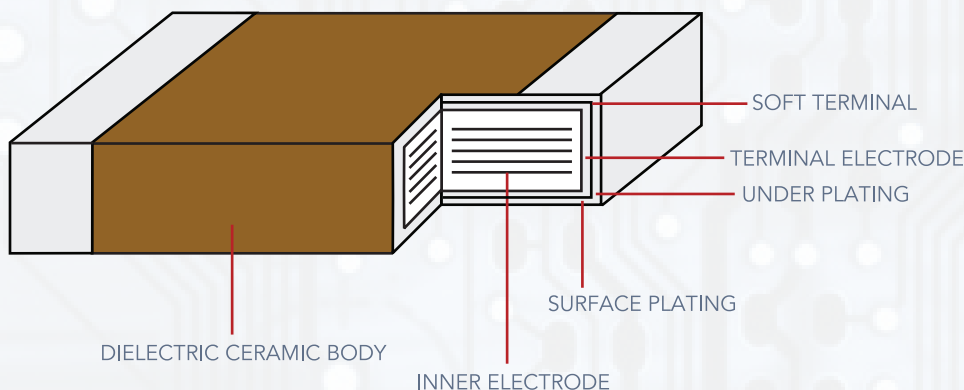
COMPOSITION OF PARTS		COMPOSITION OF MATERIALS					CLASSIFICATION	TYPICAL WEIGHT			P/N
MATERIAL NAME	TYPICAL WT % IN PRODUCT	SUBSTANCE NAME	TYPICAL WT % IN MATERIAL	SUBSTANCE NAME	TYPICAL WT % IN PRODUCT	CAS NO.	USE / PURPOSE OF MATERIAL	SUBSTANCE WEIGHT (MG)	MATERIAL WEIGHT (MG)	PRODUCT WEIGHT (MG)	PRODUCT
Dielectric Ceramic Body	81.9	Barium Titanate	68	Barium Titanate (IV)	55.6920	12047-27-7	Ceramic	2.6477	3.8936	4.754	NPO 0603 GUQ Series
		Titanic Oxide	21	Titanic Oxide	17.1990	13463-67-7		0.8176			
		Lead Free Glass	11	Lead Free Glass Frit	9.0090	65997-18-4		0.4283			
Inner Electrode	6.3	Copper	88	Copper	5.5440	7440-50-8	Cu paste	0.2636	0.2995		
		Lead Free Glass	12	Lead Free Glass Frit	0.7560	65997-18-4		0.0359			
Terminal Electrode	6	Copper	88	Copper	5.2800	7440-50-8	Cu paste	0.251	0.2852		
		Lead Free Glass	12	Lead Free Glass Frit	0.7200	65997-18-4		0.0342			
Under Plating	4.5	Nickel	100	Nickel	4.5000	7440-02-0	Ni plating	0.2139	0.2139		
Surface Plating	1.3	Matte Sn	100	Matte Sn	1.3000	7440-31-5	Sn plating	0.0618	0.618		

MATERIAL DECLARATION

PRODUCT IDENTIFICATION

- PRODUCT NAME Capacitor (MLCC)
- SERIES CHV
- SIZE 0805
- DIELECTRIC NPO
- WEIGHT 7.608 mg
- MANUFACTURE NAME Cal-Chip Electronics Inc.
- ADDRESS 59 Steamwhistle Drive Ivyland, PA 18974

GENERAL COMPOSITION



COMPOSITION OF PARTS		COMPOSITION OF MATERIALS					CLASSIFICATION	TYPICAL WEIGHT			P/N
MATERIAL NAME	TYPICAL WT % IN PRODUCT	SUBSTANCE NAME	TYPICAL WT % IN MATERIAL	SUBSTANCE NAME	TYPICAL WT % IN PRODUCT	CAS NO.	USE / PURPOSE OF MATERIAL	SUBSTANCE WEIGHT (MG)	MATERIAL WEIGHT (MG)	PRODUCT WEIGHT (MG)	PRODUCT
Dielectric Ceramic Body	81.9	Barium Titanate	68	Barium Titanate (IV)	55.6920	12047-27-7	Ceramic	4.237	6.2309	7.608	NPO 0805 GUQ Series
		Titanic Oxide	21	Titanic Oxide	17.1990	13463-67-7		1.3085			
		Lead Free Glass	11	Lead Free Glass Frit	9.0090	65997-18-4		0.6854			
Inner Electrode	6.3	Copper	88	Copper	5.5440	7440-50-8	Cu paste	0.4218	0.4793	7.608	NPO 0805 GUQ Series
		Lead Free Glass	12	Lead Free Glass Frit	0.7560	65997-18-4		0.0575			
Terminal Electrode	6	Copper	88	Copper	5.2800	7440-50-8	Cu paste	0.4017	0.4565	7.608	NPO 0805 GUQ Series
		Lead Free Glass	12	Lead Free Glass Frit	0.7200	65997-18-4		0.0548			
Under Plating	4.5	Nickel	100	Nickel	4.5000	7440-02-0	Ni plating	0.3424	0.3424	7.608	NPO 0805 GUQ Series
Surface Plating	1.3	Matte Sn	100	Matte Sn	1.3000	7440-31-5	Sn plating	0.0989	0.0989	7.608	NPO 0805 GUQ Series

