

# MICROWAVE CAPACITOR

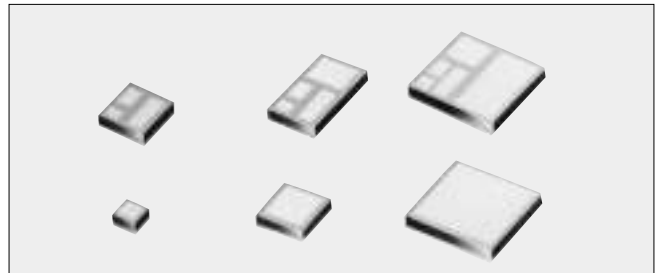


## High-frequency Microchip Capacitors **CLB** Series

# Miniaturized And Gold Electrode Type Chip Single Layer Ceramic Capacitors For Microwave Applications

### FEATURES

1. High density ceramic dielectric and pure gold electrode structure provide very reliable performance and excellent frequency characteristics.
2. Sizes range from 0.25X0.25mm to 2.29X2.29mm.
3. Wide capacitance range is available (0.1pF to 4300pF).
4. For compatibility with the gold electrodes, gold wire is available for wire bonding and Au-Si and Au-Sn alloys are available for die bonding.
5. Custom made types (dimensions, cap. values, etc.) are also available upon request.

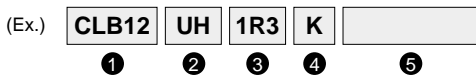


### APPLICATIONS

Microwave integrated circuits (amplifiers, oscillators, mixers, control circuits, etc.), optical communication equipment, mobile communication equipment

### PART NUMBERING

(\*Please specify the part number when ordering.)



1 Type and Size

2 Temperature Characteristics : Designated by a one-or two-or three-letter code.

Temperature Compensating

Code	Temp. Coefficient
<b>CG</b>	0±30ppm/°C
<b>UH</b>	N750±60ppm/°C
<b>XL</b>	N2200±50ppm/°C

High Dielectric Constant

Code	Cap. Change
<b>B</b>	±10%
<b>F</b>	+30, -80%
<b>YFD</b>	+30, -90%

Reference Temp : 25°C

3 Capacitance : Identified by a three-digit number.

First two digits represent significant figures.  
Last digit specifies the number of zeros to follow.  
For values below 10pF, the letter R denotes the decimal point and the last digit is significant.

- 1R3 = 1.3pF
- 390 = 39pF
- 131 = 130pF

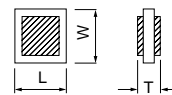
4 Capacitance Tolerance : Designated by a single letter.

B : ±0.1pF K : ±10% M : ±20% Z : +80, -20%

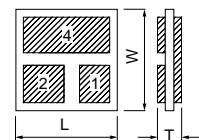
5 Other Specifications : Specifications other than those listed above, if needed.

### DIMENSIONS

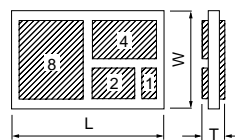
**CLB11, CLB15, CLB12, CLB16, CLB17, CLB13, CLB18, CLB19, CLB10**



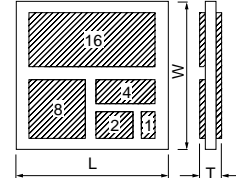
**CLB32**



**CLB44**



**CLB53**



: Gold Electrodes

Dimensions	L	W	T (max.)
Type			
<b>CLB11</b>	0.25±0.05 (.010±0.02)	0.25±0.05 (.010±0.02)	0.18 (.007)
		0.30±0.05 (.012±0.02)	
		0.35±0.05 (.014±0.02)	
<b>CLB15</b>	0.38±0.05 (.015±0.02)	0.38±0.05 (.015±0.02)	0.20 (.008)
		0.55±0.05 (.022±0.02)	
<b>CLB12</b>	0.50±0.05 (.020±0.02)	0.71±0.05 (.028±0.02)	0.25 (.010)
		0.70±0.05 (.028±0.02)	
<b>CLB16</b>	0.64±0.05 (.025±0.02)	0.64±0.05 (.025±0.02)	0.25 (.010)
		1.00±0.05 (.039±0.02)	
<b>CLB17</b>	0.76±0.05 (.030±0.02)	0.76±0.05 (.030±0.02)	0.25 (.010)
		1.09±0.05 (.043±0.02)	
<b>CLB13</b>	0.90±0.05 (.035±0.02)	0.90±0.05 (.035±0.02)	0.25 (.010)
		1.49±0.05 (.059±0.02)	
<b>CLB18</b>	1.27±0.10 (.050±0.04)	1.27±0.10 (.050±0.04)	0.25 (.010)
		1.73±0.10 (.068±0.04)	
		2.19±0.10 (.086±0.04)	
<b>CLB19</b>	1.78±0.10 (.070±0.04)	1.78±0.10 (.070±0.04)	0.30 (.012)
		2.95±0.10 (.116±0.04)	
<b>CLB10</b>	2.29±0.10 (.090±0.04)	2.29±0.10 (.090±0.04)	0.35 (.014)
		3.71±0.10 (.146±0.04)	
<b>CLB32</b>	0.50±0.05 (.020±0.02)	0.50±0.05 (.020±0.02)	0.25 (.010)
<b>CLB44</b>	0.90±0.05 (.035±0.02)	0.50±0.05 (.020±0.02)	0.25 (.010)
<b>CLB53</b>	0.90±0.05 (.035±0.02)	0.90±0.05 (.035±0.02)	0.25 (.010)

[in mm (inch)]