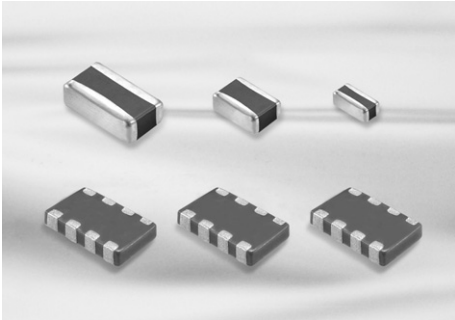


Low ESL Capacitors



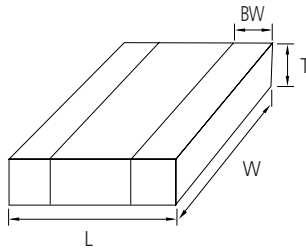
Feature

- Low ESL, good for noise reduction for high frequency
- Highly reliable tolerance and high speed automatic chip placement on PCBs
- Highly reliable performance
- Highly resistant termination metal
- Tape & reel for surface mount assembly

Application

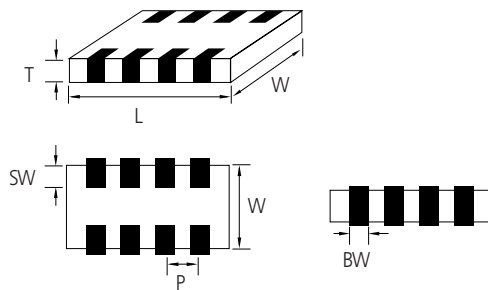
- High Speed Microprocessor
- High Frequency Digital Equipment
- ※ For using special purpose like Military, Medical, Aviation, Automobile device should be following a special specification.

LICC(Low Inductance Ceramic Capacitors)



| Code | Size (mm) | EIA Code | Dimension(mm) | | | |
|------|-----------|----------|-----------------|----------------|----------------------|-----------------|
| | | | L | W | T | BW |
| L5 | 0510 | 0204 | 0.52 ± 0.05 | 1.0 ± 0.05 | 0.3 ± 0.05 | 0.18 ± 0.08 |
| 01 | 0816 | 0306 | 0.8 ± 0.15 | 1.6 ± 0.2 | $0.5 + 0.05 / - 0.1$ | $0.25 + 0.15$ |

SLIC(Super Low Inductance Capacitors)



| Code | Size (mm) | EIA Code | Dimension(mm) | | | | | |
|------|-----------|----------|---------------|----------------|----------------------|----------------|----------------|---------------|
| | | | L | W | T | BW | SW | P |
| 10 | 1608 | 0603 | 1.6 ± 0.1 | 0.8 ± 0.1 | $0.5 / + 0.05 - 0.1$ | 0.25 ± 0.1 | 0.15 ± 0.1 | 0.4 ± 0.1 |
| 21 | 2012 | 0805 | 2.0 ± 0.1 | 1.25 ± 0.1 | $0.5 / + 0.05 - 0.1$ | 0.25 ± 0.1 | 0.18 ± 0.1 | 0.5 ± 0.1 |

Part Numbering System

General Capacitors

High Capacitance Capacitors

Super Small Size Capacitors

Medium-High Voltage Capacitors

Array Type Capacitors

Low ESL Capacitors

Reliability Test Condition

Premium Capacitors for Automotive Applications

Packaging Specification

Application Manual for Surface Mounting



SAMSUNG
ELECTRO-MECHANICS

Low ESL Capacitors Table (LICC)

| TC | Size(mm) | Tmax(mm) | Vr(V) | Capacitance (uF) | | | | | | | | | | |
|-------------|------------|----------|-------|------------------|-------|-------|-----|------|------|---|-----|-----|----|--|
| | | | | 0.01 | 0.022 | 0.047 | 0.1 | 0.22 | 0.47 | 1 | 2.2 | 4.7 | 10 | |
| X6S /X7S | 0204(0510) | 0.35 | 4 | | | | | | X6S | | | | | |
| | | | 6.3 | | | | X7S | | | | | | | |
| | 0306(0816) | 0.55 | 4 | | | | | | X7S | | | | | |

| TC | Size(mm) | Tmax(mm) | Vr(V) | Capacitance (uF) | | | | | | | | | | |
|-------------|------------|----------|-------|------------------|-------|-------|-----|------|------|---|-----|-----|----|--|
| | | | | 0.01 | 0.022 | 0.047 | 0.1 | 0.22 | 0.47 | 1 | 2.2 | 4.7 | 10 | |
| X7R /X5R | 0306(0816) | 0.55 | 6.3 | | | X7R | | | X5R | | | | | |
| | | | 0 | | | X7R | | | | | | | | |
| | | | 16 | | | X7R | | | | | | | | |
| | | | 25 | | | X7R | | | | | | | | |
| | | | 50 | | | X7R | | | | | | | | |

Low ESL Capacitors Table (SLIC)

| TC | Size(mm) | Tmax(mm) | Vr(V) | Capacitance (uF) | | | | | | | | | |
|---------------------|------------|----------|-------|------------------|------|------|---|-----|-----|----|----|--|--|
| | | | | 0.1 | 0.47 | 0.68 | 1 | 2.2 | 4.7 | 10 | 22 | | |
| X7R /X7S /X7T | 0603(1608) | 0.55 | 2.5 | | | | | | | | | | |
| | | | 4 | | | X7S | | | | | | | |
| | 0805(2012) | 0.55 | 4 | | | | | X7S | | | | | |
| | | | 6.3 | | | X7R | | | | | | | |
| | | | 16 | | | X7R | | | | | | | |

Product Lineup (Low ESL Capacitors-X7R, X6S, X7S)

| | Part Number | Size L × W (mm) | Capacitance | Rated Voltage (Vdc) | Capacitance Tolerance | Thickness Max. (mm) |
|---|------------------|-----------------|-------------|---------------------|-----------------------|---------------------|
| 1 | CL21B104MO5NJV □ | 2.00 × 1.25 | 100nF | 16 | ±20% | 0.55 |
| 2 | CL21B684MO5NJV □ | | 680nF | 16 | ±20% | 0.55 |
| 3 | CL21B684MQ5NJV □ | | 680nF | 6.3 | ±20% | 0.55 |
| 1 | CLL5X224MR3NLV □ | 0.50 × 1.00 | 220nF | 4 | ±20% | 0.35 |
| 2 | CLL5X474MR3NLV □ | | 470nF | 4 | ±20% | 0.35 |
| 3 | CLL5X105MR3NLV □ | | 1μF | 4 | ±20% | 0.35 |
| 1 | CLL5Y104MQ3NLV □ | 0.50 × 1.00 | 100nF | 6.3 | ±20% | 0.35 |
| 2 | CL01Y105MR5NLV □ | 0.80 × 1.60 | 1μF | 4 | ±20% | 0.55 |
| 3 | CL01Y225MR5NLV □ | | 2.2μF | 4 | ±20% | 0.55 |
| 4 | CL10Y474MR5NJV □ | 1.60 × 0.80 | 470nF | 4 | ±20% | 0.55 |
| 5 | CL10Y105MR5NJV □ | | 1μF | 4 | ±20% | 0.55 |
| 6 | CL10Y225MR5NJV □ | | 2.2μF | 4 | ±20% | 0.55 |
| 7 | CL21Y105MR5NJV □ | 2.00 × 1.25 | 1μF | 4 | ±20% | 0.55 |
| 8 | CL21Y225MR5NJV □ | | 2.2μF | 4 | ±20% | 0.55 |

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

Part Numbering System

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