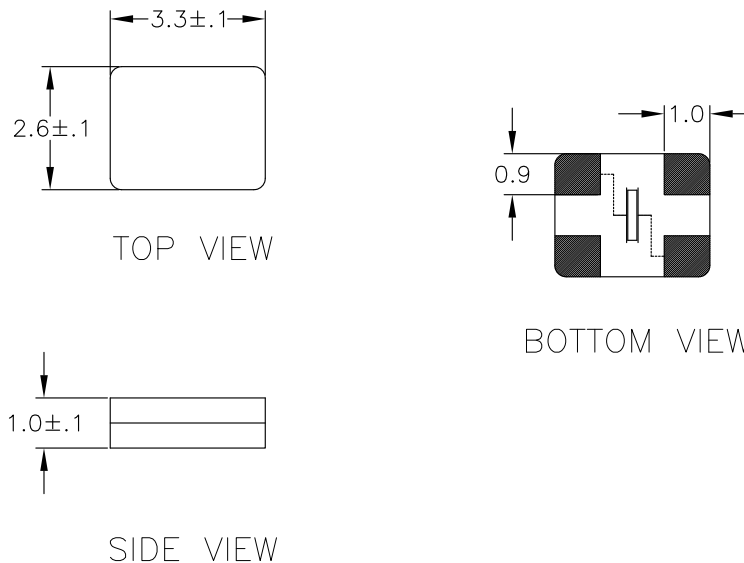


### Specifications

| Parameters  | Ratings/Units                |
|---|------------------------------|
| Frequency   | 25.000 MHz                   |
| Resonance Mode  | Fundamental                  |
| Frequency Tolerance @ 25°C  | ±20 PPM Max                  |
| Frequency Stability, ref @ 25°C<br>Over Operating Temperature Range | ±20 PPM Max                  |
| Temperature Range<br>Operating (TOPR)                               | 0°C ~ +70°C<br>-40°C ~ +85°C |
| Temperature Range, Storage (TSTG)                                   | -40°C ~ +85°C                |
| Equivalent Series Resistance (ESR)                                  | 50 Ohms Max                  |
| Shunt Capacitance (Co)  | 7 pF Max                     |
| Load Capacitance (CL)   | 8 pF                         |
| Drive Level   | 0.3 mW Max                   |
| Aging per year  | ±5 PPM Max                   |
| Maximum Soldering Temp / Time                                       | 260°C / 10 Seconds           |
| Moisture Sensitivity Level (MSL)                                    | 1                            |
| Termination Finish  | Au                           |
| Weight (TYP)  | 16.75 mg                     |
| RoHS Compliant, Pb-free   |                              |

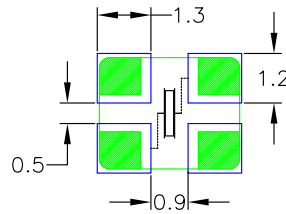
### Package Outline and Dimensions (JA4)



NOTES:  
1. ALL DIMENSIONS IN MM.

|   |                               |                          |   |                          |
|---|-------------------------------|--------------------------|---|--------------------------|
| <small>TOLERANCES<br/>UNLESS SPECIFIED</small><br><small>DECIMAL ANGULAR</small><br><small>XXX ±</small><br><small>XXXX ±</small><br><small>XXXXX ±</small> |                               |                          | <small>6024 Silver Creek Valley Rd<br/>San Jose, CA 95138<br/>PHONE: (408) 727-6116<br/>FAX: (408) 492-8674</small> |                          |
| <small>www.IDT.com</small>  |                               |                          | <small>TITLE JM4 PACKAGE OUTLINE<br/>3.2 x 2.5 mm BODY<br/>1.0 mm Thick CLCC</small>                                |                          |
| <small>APPROVALS</small><br><small>DRAWN</small>  | <small>DATE</small><br>2/5/15 | <small>SIZE</small><br>C | <small>DRAWING No.</small><br>PSC-4499  | <small>REV</small><br>01 |
| <small>DO NOT SCALE DRAWING</small>   |                               |                          | <small>SHEET 1 OF 2</small>   |                          |


## Package Outline and Dimensions (JA4), cont.



RECOMMENDED LAND PATTERN

### NOTES:

1. ALL DIMENSION ARE IN mm. ANGLES IN DEGREES.
2. TOP DOWN VIEW. AS VIEWED ON PCB.
3. COMPONENT OUTLINE SHOW FOR REFERENCE IN GREEN.
4. LAND PATTERN IN BLUE. NSMD PATTERN ASSUMED.
5. LAND PATTERN RECOMMENDATION PER IPC-7351B GENERIC REQUIREMENT FOR SURFACE MOUNT DESIGN AND LAND PATTERN.

|                                |         |   |
|--------------------------------|---------|---|
| TOLERANCES<br>UNLESS SPECIFIED |         |  6024 Silver Creek Valley Rd<br>San Jose, CA 95138<br>PHONE: (408) 721-4100<br>FAX: (408) 492-9874 |
| DECIMAL                        | ANGULAR |   |
| ±                              | ±       | www.IDT.com   |
| XXX±                           |         |   |
| XXXX±                          |         |   |
| APPROVALS                      |         | DATE  |
| DRAWN                          | DATE    | TITLE   |
| 2/2/15                         |         | JA4 PACKAGE OUTLINE   |
|                                |         | 3.2 x 2.5 mm BODY   |
|                                |         | 1.0 mm Thick CLCC   |
| CHECKED                        |         |   |
|                                | SIZE    | DRAWING NO.   |
|                                | C       | PSC-4499  |
|                                |         | REV   |
|                                |         | 01  |
| DO NOT SCALE DRAWING           |         | SHEET 2 OF 2  |

## Ordering Information

| Part / Order Number | Shipping Packaging | Package                     | Temperature   |
|---------------------|--------------------|-----------------------------|---------------|
| 603-25-150JA4C      | Cut-Tape           | 3.2 x 2.5 x 1.0 mm JA4 CLCC | 0 to +70 °C   |
| 603-25-150JA4C8     | Tape and Reel      | 3.2 x 2.5 x 1.0 mm JA4 CLCC | 0 to +70 °C   |
| 603-25-150JA4I      | Cut-Tape           | 3.2 x 2.5 x 1.0 mm JA4 CLCC | -40 to +85 °C |
| 603-25-150JA4I8     | Tape and Reel      | 3.2 x 2.5 x 1.0 mm JA4 CLCC | -40 to +85 °C |



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