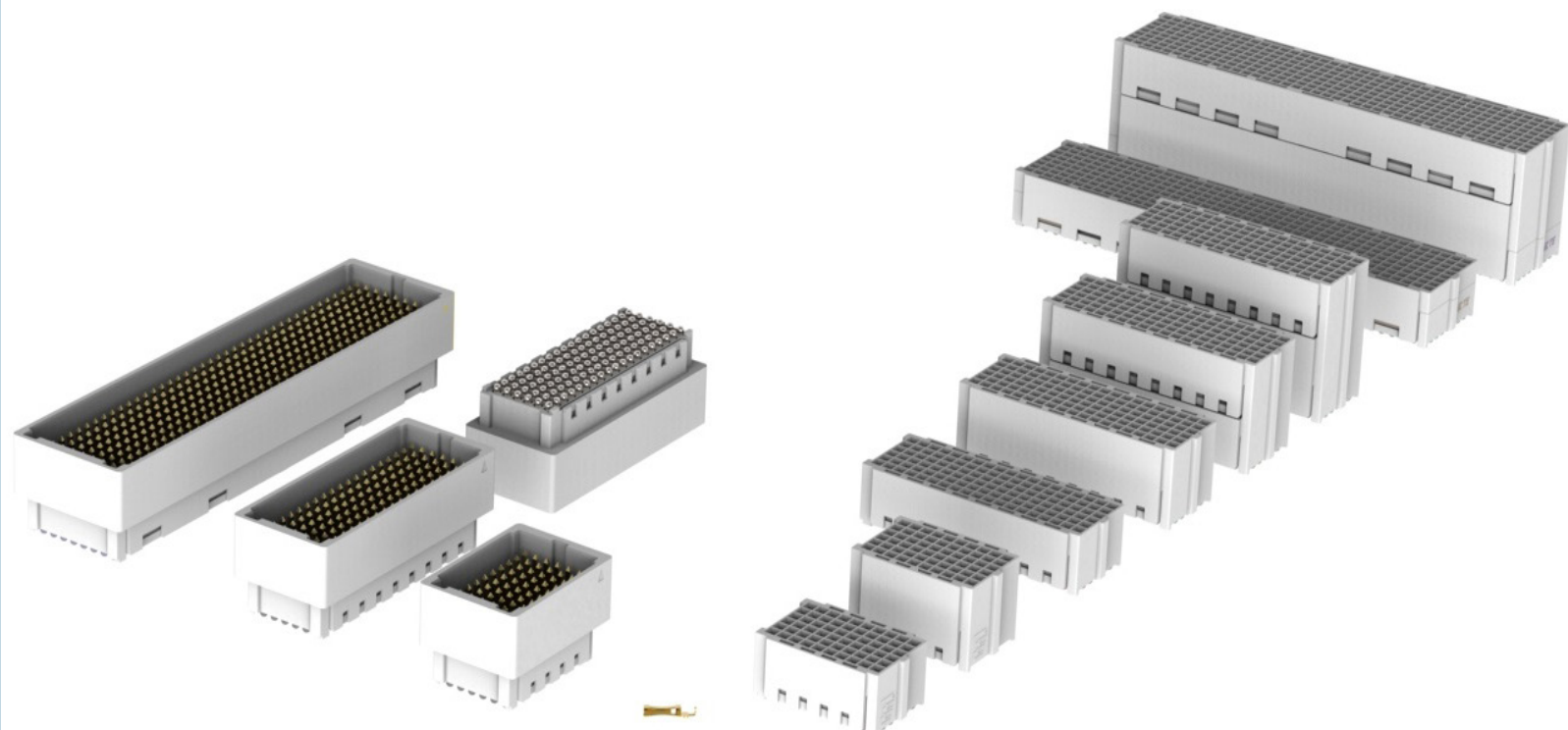




# Mezalok Connector

*(High Reliability Mezzanine Connector)*

# Mezalok Connector



## Flexibility

Stack height available in 10, 12, 15 and 18 mm

114 position footprint compatible to XMC footprint and all dimensional constraints

114 position footprint compatible to XMC footprint and all dimensional constraints

## Reliability

Mini-Box contact system provides 4 points of contact for high reliability

## Stability

High temperature thermoplastic housings offer superior thermal stability and are low-outgassing

Compliant BGA board attach supports standard surface mount processing and excellent thermal stability

114 position footprint compatible to XMC footprint and all dimensional constraints

## DESCRIPTION

Rugged surface mount mezzanine connector incorporating “quad-redundant” Mini-Box contact system for separable interface.

Available in 60, 114 and 320 positions with stack heights options 10, 12, 15 and 18 mm.

## APPLICATIONS

Stacking or mezzanine applications for rugged embedded computing,

114 position supports VITA 61 XMC architecture as rugged, high speed alternative to VITA 42 XMC

## ELECTRICAL

Supports data rates up to 10+ Gb/s

Pins can be allocated for single-ended or differential signal

## MECHANICAL

500 mating cycles durability

Mating force: Maximum of 0.30 lbs per contact

-65°C to +125°C operating temperature

Shock and vibration per VITA 47 and 72 Halt Test requirements

## MATERIALS

|                  |                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------|
| Pin Assembly:    | LCP housings, white in color                                                                                    |
| Socket Assembly: | LCP housings, white in color                                                                                    |
| Contacts:        | High Performance Copper Alloy, 30 and 50µ” Au in mating interface (Sn/Pb and SAC405 solder balls are available) |

## STANDARDS & SPECS

114 position is compliant to VITA 61

VITA 42 and VITA 61 are not intermateable, but are footprint and XMC architecture compatible

|                            |           |
|----------------------------|-----------|
| Application specification: | 114-13279 |
| Product specification:     | 108-2411  |
| Test Report:               | 501-736   |

## APPLICATION TOOLING

Product is installed via standard BGA surface mount processes.

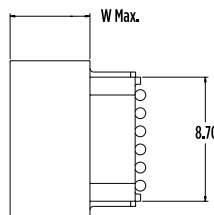
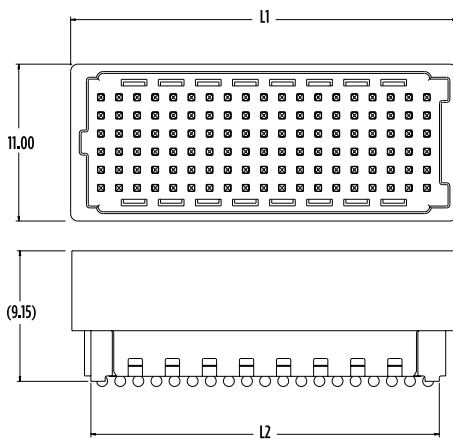
# Mezalok Connector



Mini-box contact

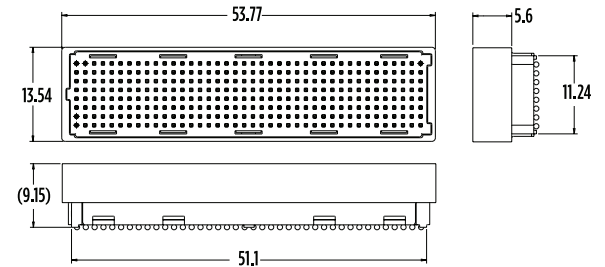
| Position Size | Connector and Stack Height (mm) |    | 50 Microinch Gold Mating Interface |               | 30 Microinch Gold Mating Interface |               |
|---------------|---------------------------------|----|------------------------------------|---------------|------------------------------------|---------------|
|               |                                 |    | Tin-Lead BGA                       | Lead Free BGA | Tin-Lead BGA                       | Lead Free BGA |
| 60            | Pin connector                   |    | 2102079-1                          | 2102079-2     | 2102079-3                          | 2102079-4     |
|               | Socket Connector                | 10 | 2102080-1                          | 2102080-2     | 2102080-5                          | 2102080-6     |
|               |                                 | 12 | 2102080-3                          | 2102080-4     | 2102080-7                          | 2102080-8     |
|               |                                 | 18 | 2102080-9                          | 1-2102080-0   | 1-2102080-1                        | 1-2102080-2   |
| 114           | Pin Connector                   |    | 2102060-1                          | 2102060-2     | 2102060-3                          | 2102060-4     |
|               | Socket Connector                | 10 | 2102061-1                          | 2102061-2     | 2102061-5                          | 2102061-6     |
|               |                                 | 12 | 2102061-3                          | 2102061-4     | 2102061-7                          | 2102061-8     |
|               |                                 | 15 | 1-2102061-3                        | 1-2102061-4   | 1-2102061-5                        | 1-2102061-6   |
|               |                                 | 18 | 2102061-9                          | 1-2102061-0   | 1-2102061-1                        | 1-2102061-2   |
| 320           | Pin Connector                   |    | 2102429-1                          | 2102429-2     | 2102429-3                          | 2102429-4     |
|               | Socket Connector                | 10 | 2102430-1                          | 2102430-2     | 2102430-5                          | 2102430-6     |
|               |                                 | 18 | 2102430-9                          | 1-2102430-0   | 1-2102430-1                        | 1-2102430-2   |

## Pin — 60 position & 114 position

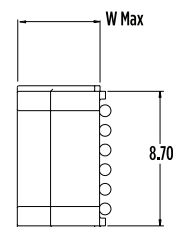
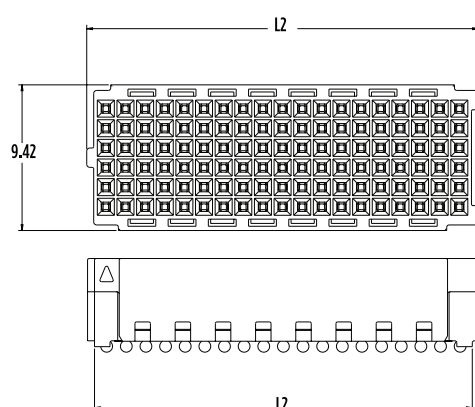


| Pos. | L1    | L2    | W Max. |
|------|-------|-------|--------|
| 60   | 15.67 | 13.00 | 5.60   |
| 114  | 27.10 | 24.43 | 5.60   |

## 320 position

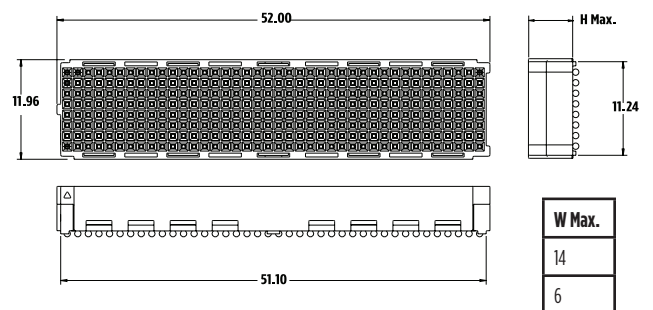


## Socket — 60 position & 114 position



| Pos. | L1    | L2    | W Max.       |
|------|-------|-------|--------------|
| 60   | 13.90 | 13.00 | 8, 6         |
| 114  | 25.33 | 24.43 | 14, 11, 8, 6 |

## 320 position



## FOR MORE INFORMATION

### Technical Support

|                |                                                    |
|----------------|----------------------------------------------------|
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2-1773457-3 ADM/RRD 2.5M 03/2014

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