

# Mezalok Connector

*(High Reliability Mezzanine Connector)*

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## Flexibility

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

114 position footprint compatible to XMC footprint and all dimensional constraints

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## 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.

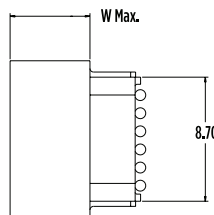
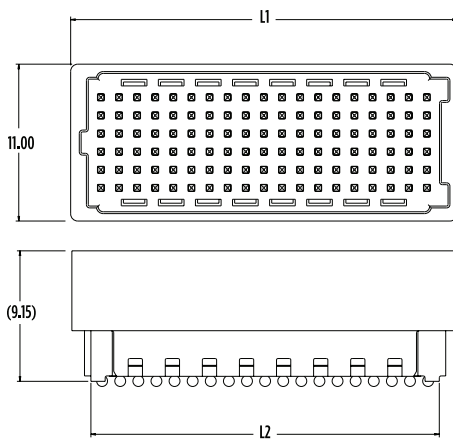
# Mezalok Connector



Mini-box contact

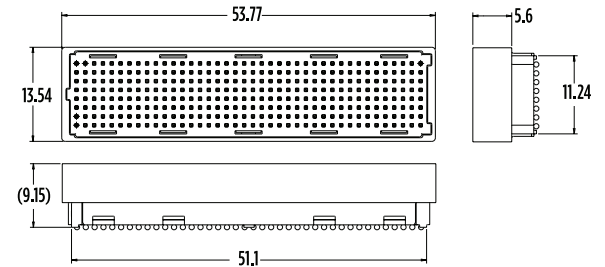
Position Size	Connector and Stack Height (mm)		50 Microinch Gold Mating Interface		30 Microinch Gold Mating Interface	
			Tin-Lead BGA	Lead Free BGA	Tin-Lead BGA	Lead Free BGA
60	Pin connector		2102079-1	2102079-2	2102079-3	2102079-4
	Socket Connector	10	2102080-1	2102080-2	2102080-5	2102080-6
		12	2102080-3	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

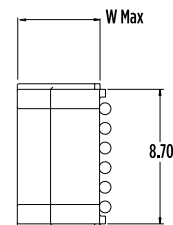
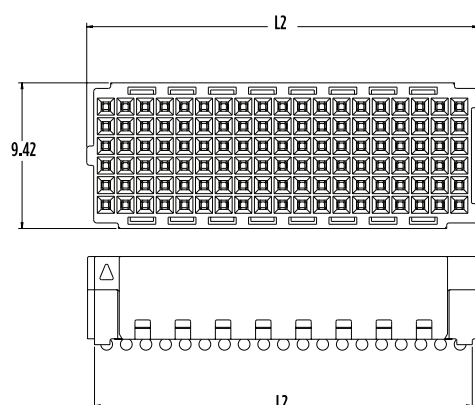


Pos.	L1	L2	W Max.
60	15.67	13.00	5.60
114	27.10	24.43	5.60

## 320 position

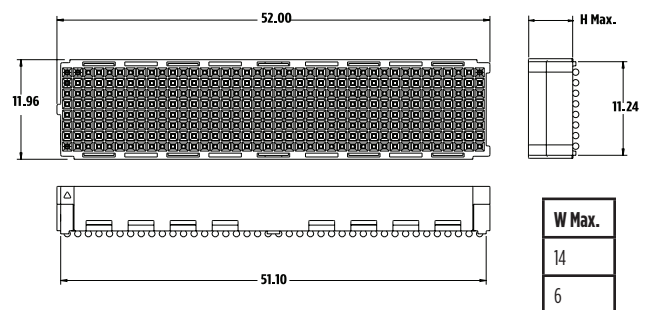


## Socket — 60 position & 114 position



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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