

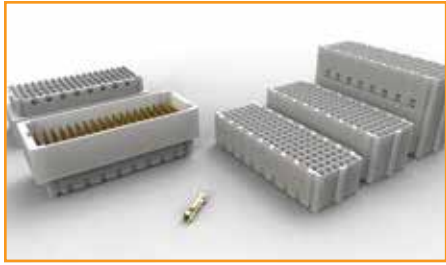
# MEZALOK CONNECTORS

HIGH-RELIABILITY MEZZANINE CONNECTORS

Rugged Surface-Mount Mezzanine Connectors for Embedded Computing Support Data Rates to 10+ Gb/s

# MEZALOK CONNECTORS

## High-Reliability Mezzanine Connectors



### HIGH RELIABILITY

- Mini-Box contact system provides four points of contact
- Thermoplastic housing provides excellent thermal stability
- 500 mating cycles

### VERSATILE

- Available in 60, 114, and 320 positions
- Stack height options include 10, 12, 15, and 18 mm
- Pins can be allocated for single ended or differential signal

### CAPABLE

- Supports data rates to 10+ Gb/s
- Low outgassing housing
- -65°C to +125°C operating temperature range

### APPLICATIONS

- VPX embedded computing
- XMC card applications
- Military
- Aerospace

## Rugged Mezzanine Connectors

Mezalok mezzanine connectors are designed for stacking or mezzanine applications for rugged embedded computing. The connectors incorporate a quad-redundant Mini-Box contact system for a separable interface, and are available in 60, 114, and 320 positions with stack height options of 10, 12, 15, and 18 mm.

## VITA 61 XMC Compliant

Mezalok connectors are shock and vibration resistant per VITA 47 and 72 HALT test requirements. The 114-position connector is compliant to VITA 61.

## Rugged Choice for High-Speed Mezzanine Applications

Featuring a wide operating temperature range, excellent thermal stability, and data rates to 10+ Gb/s, these rugged and highly versatile connectors are ideal for high-speed embedded computing applications. Installation of Mezalok connectors is easily accomplished using standard BGA surface mount processes.

## Specifications

### ENVIRONMENTAL/MECHANICAL

- **Durability:** 500 mating cycles
- **Mating Force:** 0.30 lbs. per contact
- **Temperature Range:** -65°C to +125°C
- **Shock/Vibration Resistance:** VITA 47/72 HALT

### ELECTRICAL

- **Data Rates:** 10+ Gb/s
- **Pins:** Single-ended or differential signal

### MATERIALS

- **Pin Assembly:** LCP housings, white
- **Socket Assembly:** LCP housings, white
- **Contacts:** High-performance copper alloy, 30 or 50  $\mu$ " gold in mating interface (Tin/lead and SAC405 solder balls are available)

### STANDARDS AND SPECIFICATIONS

- **Application Specification:** 114-13279
- **Product Specification:** 108-2411
- **Qualification Test Report:** 501-736

## TE Components . . . TE Technology . . . TE Know-how . . .

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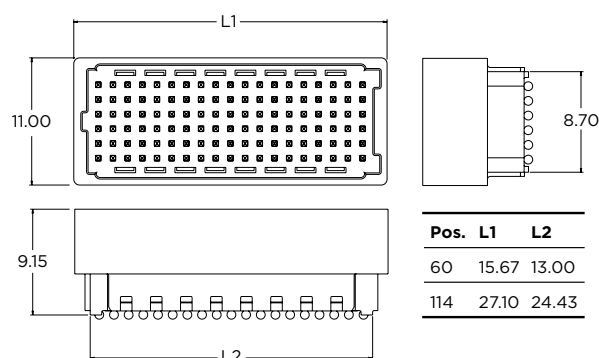
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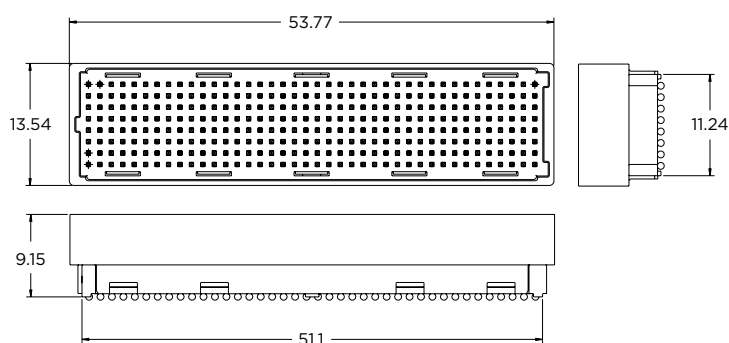
Mini-Box contact

No. of Positions	Connector and Stack Height		50 μ” Gold Mating Interface		30 μ” 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

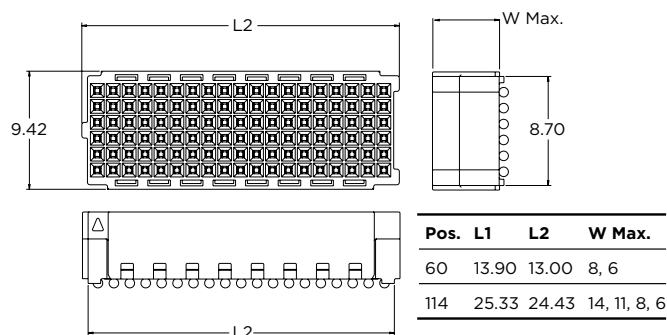
### Pin — 60 position and 114 position



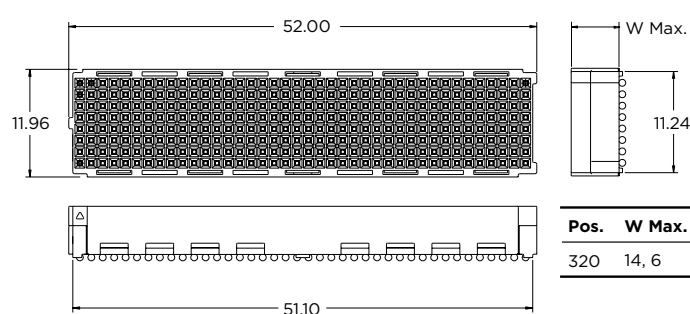
### 320 position



### Socket — 60 position and 114 position



### 320 position



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