

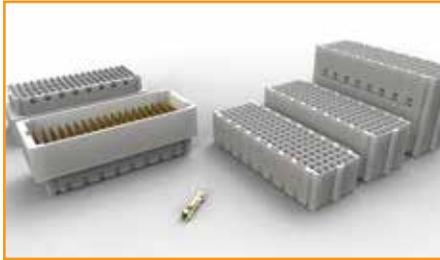
MEZALOK CONNECTORS

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 μ " 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

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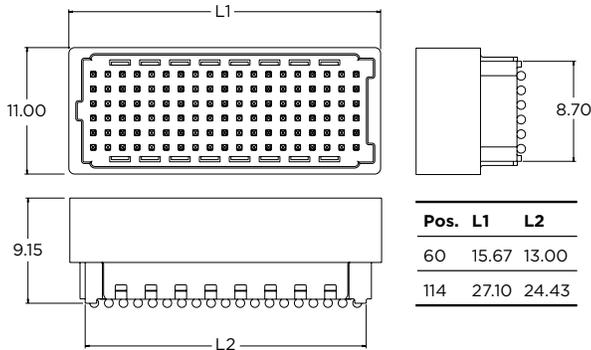
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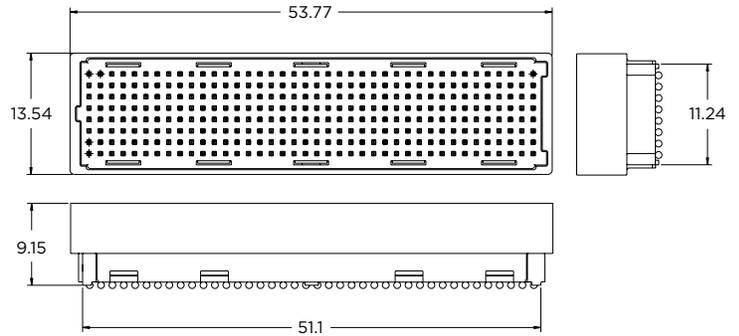
Mini-Box contact

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
		12	2102080-3	2102080-4	2102080-7
		18	2102080-9	1-2102080-0	1-2102080-1
114	Pin Connector	2102060-1	2102060-2	2102060-3	2102060-4
	Socket Connector	10	2102061-1	2102061-2	2102061-5
		12	2102061-3	2102061-4	2102061-7
		15	1-2102061-3	1-2102061-4	1-2102061-5
18		2102061-9	1-2102061-0	1-2102061-1	
320	Pin Connector	2102429-1	2102429-2	2102429-3	2102429-4
	Socket Connector	10	2102430-1	2102430-2	2102430-5
		18	2102430-9	1-2102430-0	1-2102430-1

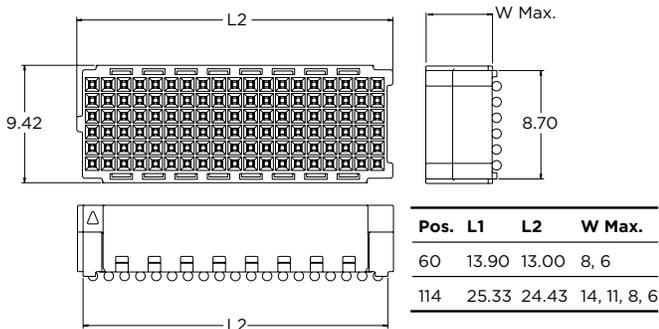
Pin – 60 position and 114 position



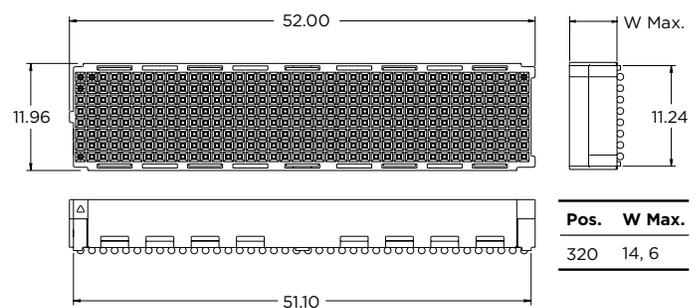
320 position



Socket – 60 position and 114 position



320 position



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