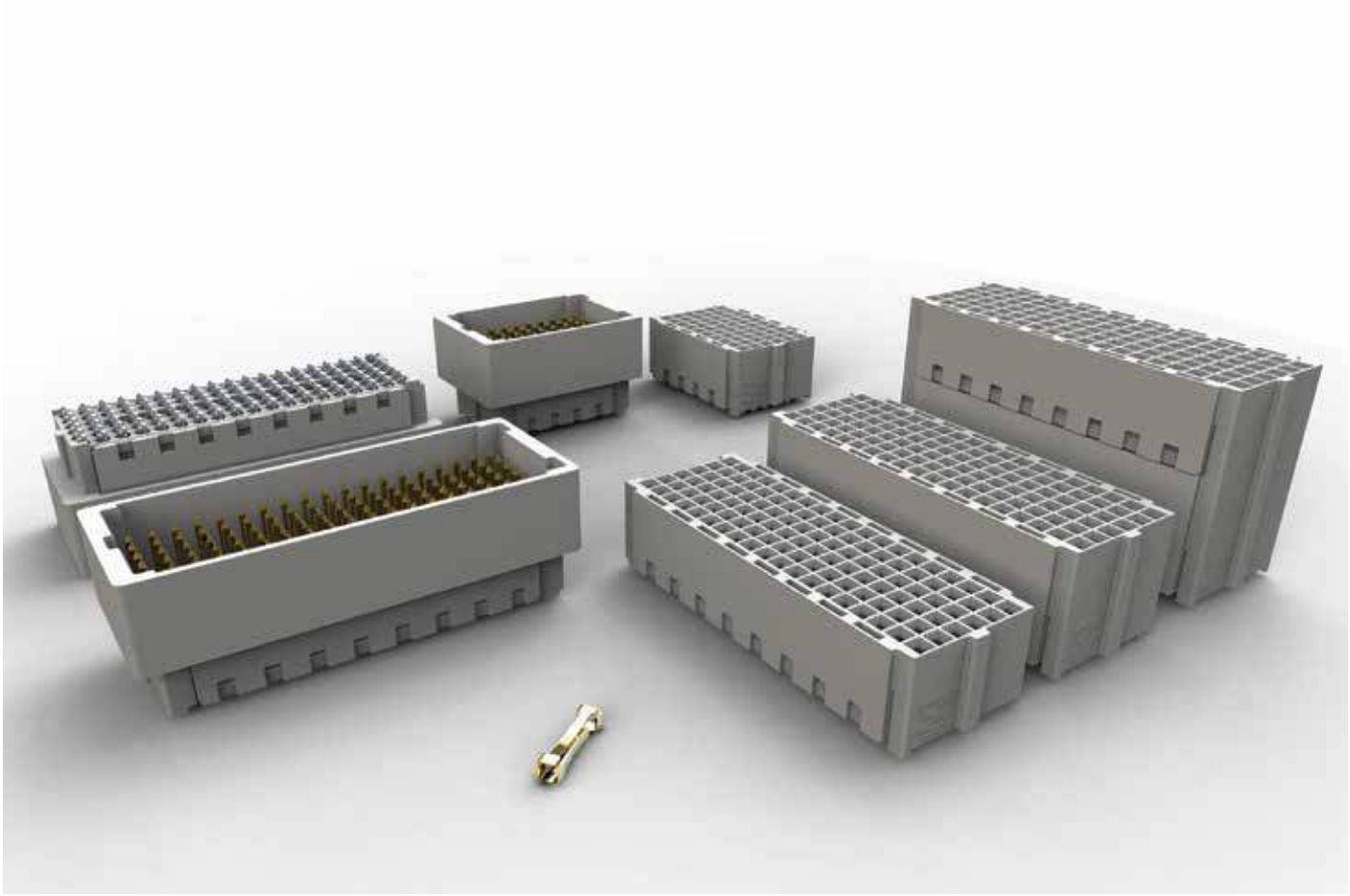


MEZALOK HS CONNECTORS

HIGH-SPEED (HS), HIGH-RELIABILITY MEZZANINE CONNECTORS FOR VITA 61 (XMC 2.0)

Mezalok HS Connectors

High-speed (HS), hIgh-reliability mezzanine connectors

VERSATILE

- 114-position module is VITA 61 compliant
- 60, 114, and 320 positions
- 10, 12, 15, 17 and 18 mm stack heights

ROBUST

- Rugged surface-mount mezzanine connector with 500 mating cycle durability
- Improved thermal cycling stability compared to VITA 42 connectors—2000 thermal shock cycles -55°C to +125°C
- Anti-stubbing design during mating

HIGH PERFORMANCE

- Supports data rates up to 32+ Gb/s
- Mini-Box contact system provides four points of contact for ultra-reliability
- LCP plastic housings offer superior thermal stability and low outgassing
- Compliant BGA board-attach supports standard surface mount processing and excellent thermal stability

VITA 61 Mezalok HS (XMC 2.0) Connectors

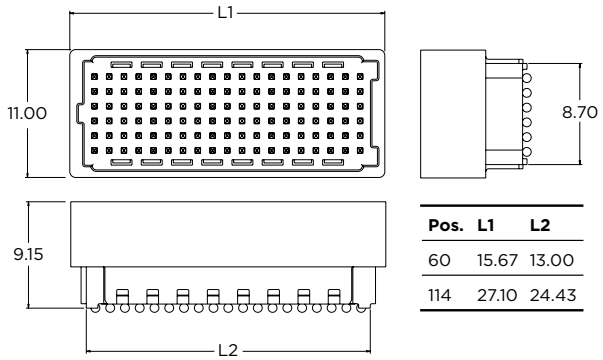
TE's Mezalok HS mezzanine connectors are designed for stacking or mezzanine applications for rugged embedded computing. The connectors incorporate a quad-redundant Mini-Box contact system for a separable interface, and are available in 60, 114, and 320 positions with stack height options of 10, 12, 15, 17 and 18 mm.

Mezalok HS connectors are shock and vibration resistant per VITA 47 and 72 HALT test requirements. The 114-position connector is compliant to VITA 61. Featuring a wide operating temperature range, excellent thermal stability, and data rates to 32+ Gb/s, these rugged and highly versatile connectors are ideal for high-speed embedded computing applications. Installation of Mezalok HS connectors is easily accomplished using standard BGA surface mount processes.

STANDARDS AND SPECIFICATIONS

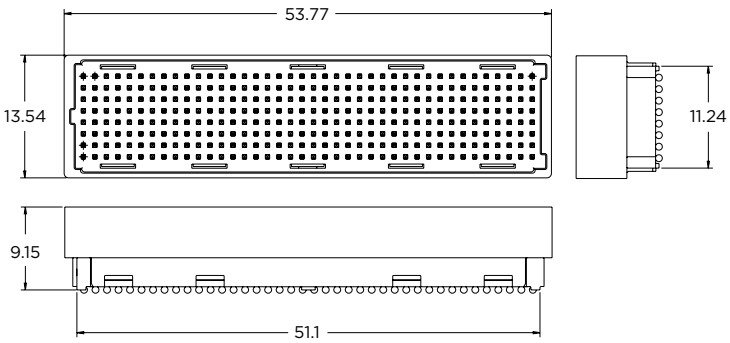
- **Application Specification:** 114-13279
- **Product Specification:** 108-2411
- **Qualification Test Report:** 501-736
- **Electrical Performance Report:** 505-4

Pin — 60 position and 114 position

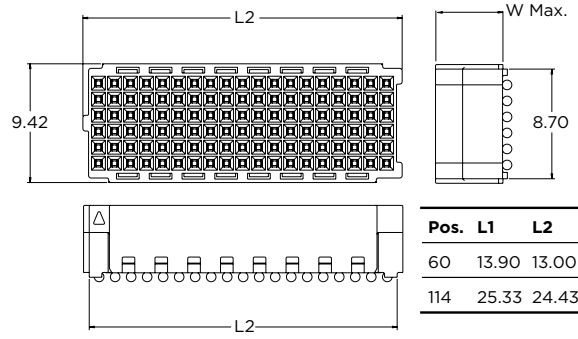


Pos.	L1	L2
60	15.67	13.00
114	27.10	24.43

320 position

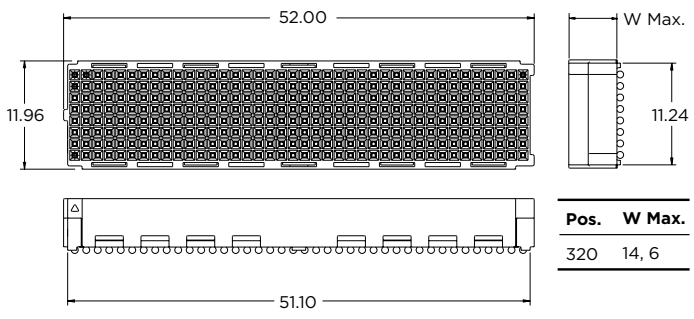


Socket — 60 position and 114 position



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

320 position



Pos.	W Max.
320	14, 6

Mezalok HS Connectors

Mini-Box contact

Position Size	Connector and Stack Height (mm)		Low Mating / Extraction Force 50 Microinch Gold Mating Tin-Lead BGA	Low Mating / Extraction Force 50 Microinch Gold Mating Lead Free BGA	50 Microinch Gold Mating Tin-Lead BGA	50 Microinch Gold Mating Lead Free BGA	30 Microinch Gold Mating Tin-Lead BGA	30 Microinch Gold Mating Lead Free BGA
60	Pin Connector		2102079-1	2102079-2	2102079-1	2102079-2		
	Socket Connector	10	2369022-1	2369022-2	2102080-1			
		12	2369022-3	2369022-4	2102080-3			
114	Pin Connector		2102060-1	2102060-2	2102060-1	2102060-2	2102060-3	2102060-4
	Socket Connector	10	2355825-1	2355825-2	2102061-1	2102061-2	2102061-5	2102061-6
		12	2355825-3	2355825-4	2102061-3	2102061-4	2102061-7	2102061-8
		15			1-2102061-3	1-2102061-4	1-2102061-5	1-2102061-6
		17	1-2355825-7	1-2355825-8	1-2102061-7	1-2102061-8		
		18	2355825-9	1-2355825-0	2102061-9	1-2102061-0	1-2102061-1	1-2102061-2
320	Pin Connector		2102429-1		2102429-1			2102429-4
	Socket Connector	10	2355827-1	2355827-2	2102430-1			2102430-6
		18	2355827-9	1-2355827-0	2102430-9			1-2102430-2

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MEZALOK HS CONNECTORS

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