

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

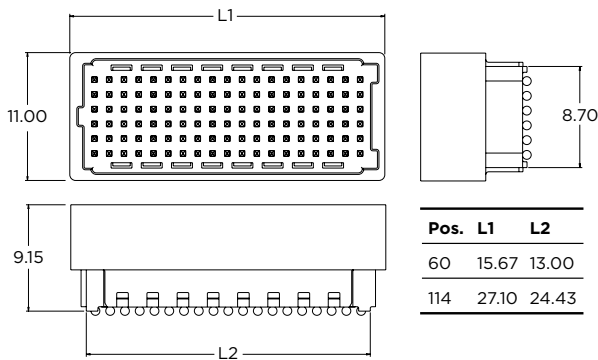
TE's Mezalok HS mezzanine connectors are designed for stacking or mezzanine applications for rugged embedded computing. The connectors incorporate a quad-redundant Mini-Box contact system for a separable interface, and are available in 60, 114, and 320 positions with stack height options of 10, 12, 15,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

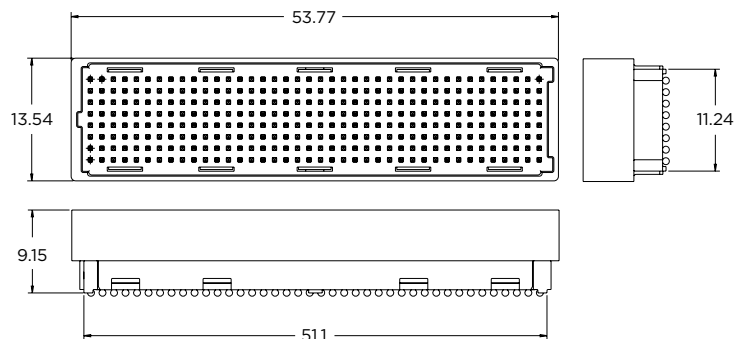
STANDARDS AND SPECIFICATIONS

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

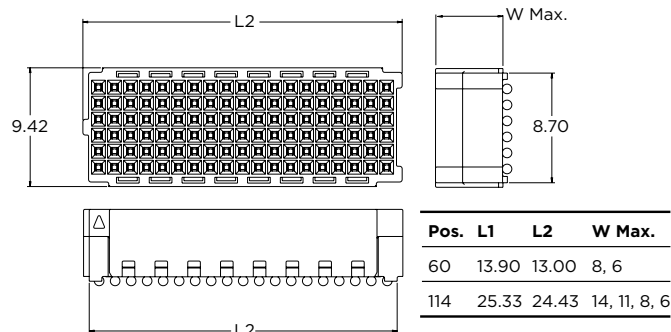
Pin — 60 position and 114 position



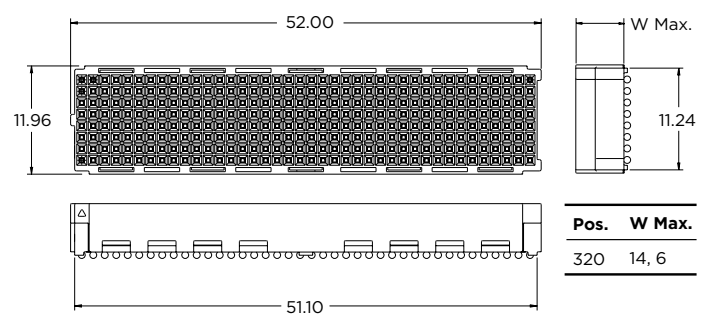
320 position



Socket — 60 position and 114 position



320 position



Mezalok HS Connectors



Mini-Box contact

		Low Mating / Extraction Force						
Position Size	Connector and Stack Height (mm)		50 Microinch Gold Mating		50 Microinch Gold Mating		30 Microinch Gold Mating	
			Tin-Lead BGA	Lead Free BGA	Tin-Lead BGA	Lead Free BGA	Tin-Lead BGA	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

Empower Engineers to Solve Problems, Moving the World Forward.

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem
SEACON | Rochester | DEUTSCH

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need. Visit te.com/support to chat with a Product Information Specialist.

te.com/embeddedcomputing

AMP, AGASTAT, CII, DEUTSCH, HARTMAN, KILOVAC, Mezalok HS, MICRODOT, NANONICS, POLAMCO, Raychem, SEACON, TE, TE Connectivity, and TE Connectivity (logo) are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity All Rights Reserved.

2-1773457-3 10/20

MEZALOK HS CONNECTORS

TE Connectivity
Aerospace, Defense & Marine
2900 Fulling Mill Road
Middletown, PA 17057

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[1-2102061-1](#) [1-2102061-2](#) [2102061-2](#) [2102061-4](#) [2102061-5](#) [2102061-7](#) [2102060-1](#) [2102061-1](#) [2102061-3](#)
[2102061-9](#) [2102079-1](#) [2102080-1](#) [2102080-3](#) [2102060-4](#) [2102079-4](#) [2102079-3](#) [2102060-3](#) [2102060-2](#) [2102079-2](#)
[2102061-8](#) [1-2102061-0](#) [2102061-6](#) [2102429-1](#) [2102430-9](#) [1-2102061-5](#) [1-2102430-2](#) [2102430-1](#) [1-2102061-3](#)
[1-2102061-4](#) [2102429-4](#) [1-2102061-6](#) [2102430-6](#) [1-2102061-7](#) [1-2102061-8](#)