

Product Name: ZX104LN-RK TE Mictor 0.64mm (0.025") pitch Breakout Adapter – in-system rackmount – low profile

Product Description: 19pins per row x 2 rows -- > 38 pins breakout adapter supporting TE's (Tyco/AMP/T) Mictor receptacle / plug design legacy Mictor high speed connectors. ZX104LN-RK is designed for rackmount or low profile test and measurement applications; servers or networking hardware in any standard rackmount. ZX104LN-RK has onboard Mictor plug connector, mating with Mictor receptacle connector series.

- 1- Each Mictor plug connector's signal is routed to onboard header.
- 2- Listed number adjacent to each header pin represents the associated TE Mictor plug pin number.
- 3- All traces are 50 Ohms impedance controlled.
- 4- Four layers PCB design, inner layers are GND planes.
- 5- One accessible GND test point, The test point is connected to module's GND planes and direct interface to the connector GND blade.
- 6- Offering Low profile design, targeting in-system rackmount or low profile design test & measurement applications.
- 7- Ease of interface with single channel and differential scope probes.
- 8- Fully compatible with Single Ended , -D, and Differential Pair, -DP, TE Mictor connector plug series & cable assemblies
- 9- Mates with any height and form factor Mictor receptacle connector series.
- 11- Flying lead wire assembly may be used for board to board interface – See ordering information, see [ZX100ACC-SS](#)

Electrical:
 Insertion loss > -2dB @8GHz
 Trace impedance: 50 Ω
 Operating Temperature: -55°C to +125°C
 TE Connector:

Onboard Connector: Mictor plug 2rows x 19 pins/row
 Mates with: Any Mictor receptacle formfactor
 Pitch: 0.025" (0.64mm) pin to pin pitch
 Plating: Gold Flash
 Header:
 Pitch: 0.1" (2.54mm) pin to pin pitch
 Pin: Square 0.025" (0.635mm)
 Height: 0.24" (6mm)
 Plating: Gold Flash

Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Any Tyco's 38 pin Mictor receptacle offered at any height
 767007-8 767056-1 5767007-8 5767056-1 767139-1 767140-1 5767139-1 5767140-1
 767003-9 767087-1 5767003-9 5767087-1 767005-8 767057-1 5767057-1 5767057-1
 767025-1 5767025-1 767025-2 5767025-2 767042-1 5767042-1 767042-2 5767042-2
 767032-1 5767032-1 767032-2 5767032-2 767017-1 5767017-1 767017-2 5767017-2
 767006-1 5767006-1 767055-1 5767055-1
 Agilent 5346-6002 E5339A E5334A E5351A E5346-6002 E5346-63201

ZX104LN-RK Header pin configuration

TOP	3	7	11	15	19	23	27	31	35	GND
	1	5	9	13	17	21	25	29	33	37
BOTTOM	4	8	12	16	20	24	28	32	36	GND
	2	6	10	14	18	22	26	30	34	38

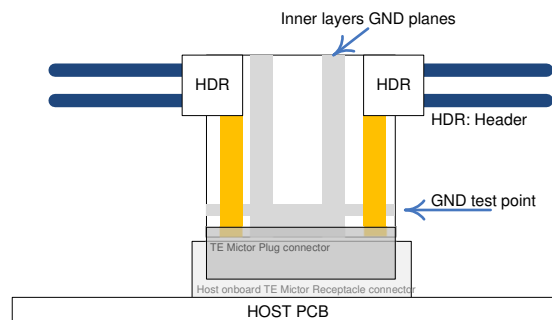
Header pin numbers refer to the TE Mictor plug connector pin number
 "GND" header pins are connected to the 2 internal ground layers as well as top/bottom GND fills.

Notice

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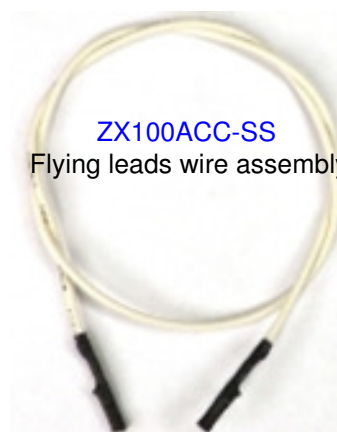
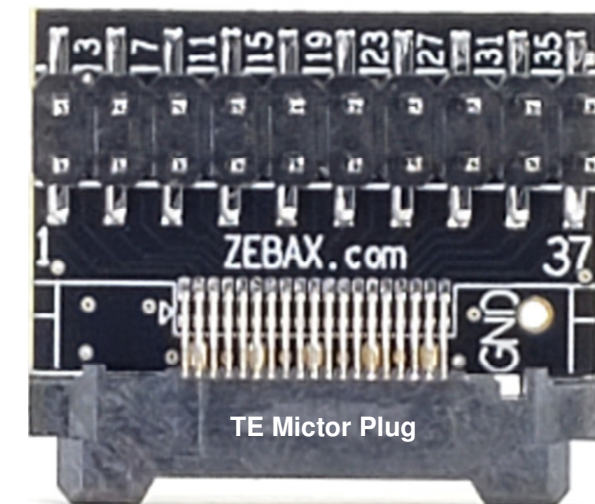
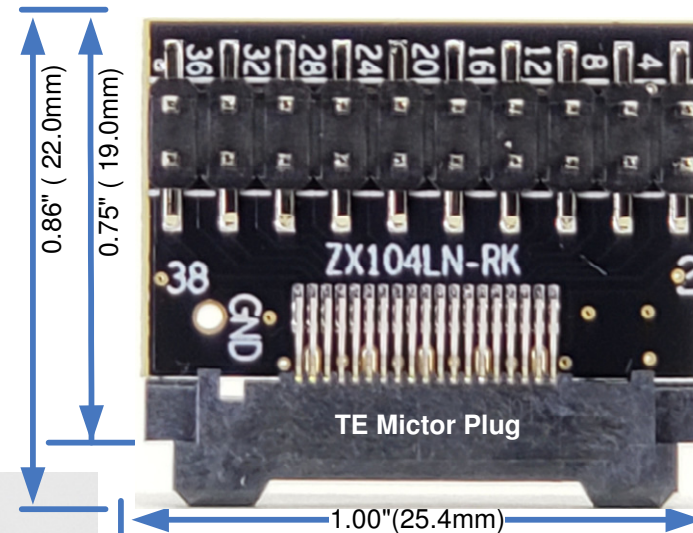
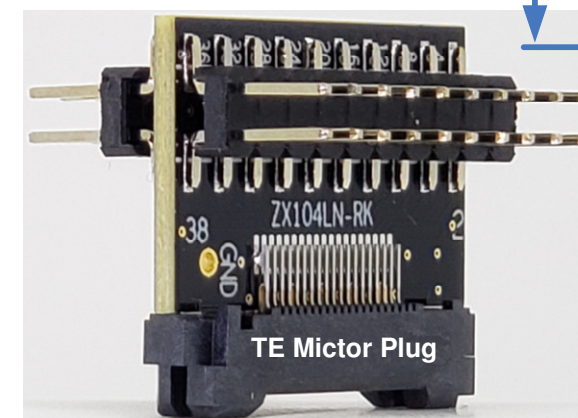
ZX104LN-RK simplified cross section diagram



Note:
 Signal layers
 Ground layers, Please note – The GND test point is connector to:
 1- Top/Bottom GND fill
 2- The inner layers ground planes
 3- TE connector GND blade.

Compliance:
 ISO2001 certified
 RoHs - Lead Free
 EU RoHS2
 UL E111594 document
 ELV- Vehicle Directive (Directive 2000/EC)
 European Union Directive (203/11/EC)
 Halogen Free per IEC-61249-2.21 : 2003
 RoHs Directive 2011/65/EU
 WEEE Directive (2012/12/EU)

Certificate of Compliance for Radioactive substances
 Certificate of Compliance for Asbestos
 Certificate of Compliance for Ozone Depleting Substances, ODS
 Certificate REACH SVHC
 Certificate of Compliance RoHS_EN_CoC



ZX104LN-RK package includes:

Part number	Quantity	Description
ZX104LN-RK	1	TE Breakout Adapter module
ZX100ACC-SS	0	Flying leads wire assembly

[ZX100ACC-SS site page](#) for ordering the flying leads wire assembly

Note - ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING
	ITEM: ZX104LN-RK
DESCRIPTION: In-system rackmount / low profile TE Mictor breakout adapter Plug-RK	
CHECKED: M. MARINA	DRAWN: MATTHEW
	REVISION: 1.0
	SHEET: 1 OF 1