Product Name: **ZX104D12 Differential Mictor Breakout Adapter 38-PLUG**

Product Description: Mictor breakout adapter Plug 38 pin Tyco/AMP/TE. Designed in 4 layer PCBoard with improved signal integrity and crosstalk.ZX104D12 is designed for use with differential signaling and general Mictor connector interface signal measurement, analysis as well as ***Characterization***. All signal pairs are traced differentially **matching** identical trace length throughput the board. Designed for 90Ω differential pairs (45Ω single ended) for slew, timing and characterization (PVT Variation of Load [**P**ower], ASIC supply Power **V**oltage, and ASIC **T**emperature.

In addition to ALL Mictor signal being available at header, ***dedicated*** test points for I2C-SDA, I2C-SCL, +5V, GND is provided for direct connection
"**GND"** Header test points are connected to 2 inner layer GND plates ***along with Mictor's center GND tap.*** Please use this GND as your system GND reference.

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

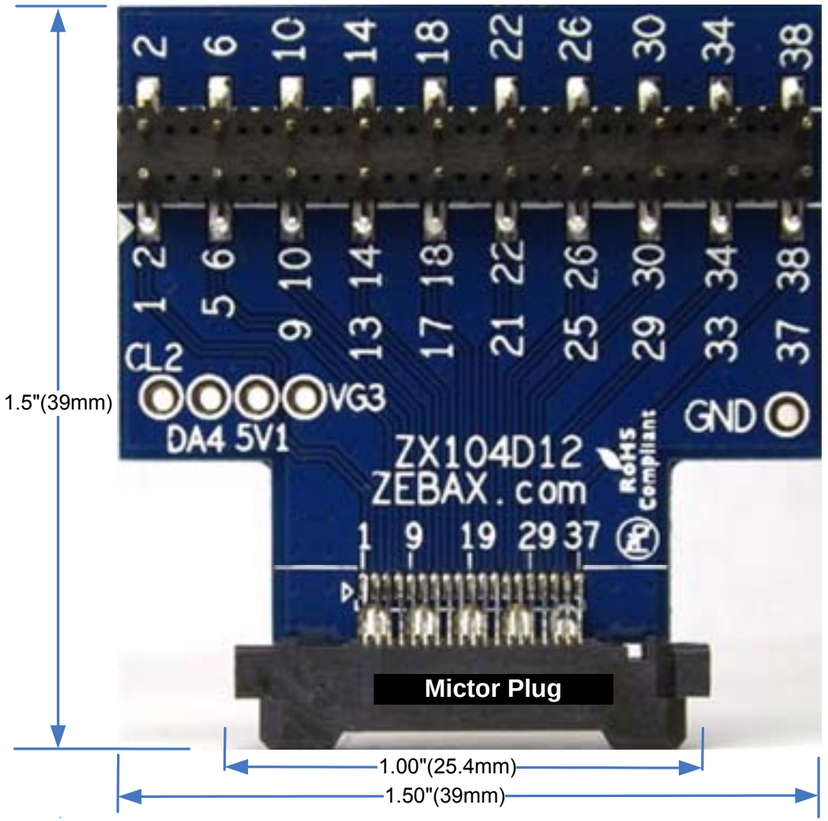
Mates with : Any Tyco's 38 pin Mictor Socket offered at any height
2-767004-2 767096-8 767096-1 767110-1 767114-1 767114-8
767181-1 767054-1 767171-1 767081-1 767115-1
2-5767004 5767096-8 5767096-1 5767110-1 5767114-1 5767114-8
5767181-1 5767054-1 5767171-1 5767081-1 5767115-1
767130-1 767146-1 767146-8 767094-1 767178-1 767178-8 767154-1 767153-8 767095-1
5767130-1 5767146-1 5767146-8 5767094-1 5767178-1 1761316-8 5767154-1 5767153-8 5767095-1

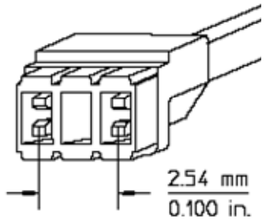
767044-1 767007 767056 767111 767116 767117 767118 767119 5767006 5767044

Agilent 5346-6002 E5339A E5334A E5351A E5346-6002 E5346-63201

Pitch: 0.64mm (0.025") centerline contact spacing connector, Legacy Mictor High Speed connector

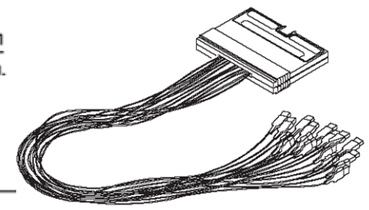
Headers: Pin Center - 0.1" (2.54mm) Pitch - 0.15" (4mm)
Pin diameter - 0.018" (0.46mm) Post height - 0.157 (4mm)
Meeting differential probe Agilent E5381A or similar.





Agilent Technologies

E5381A Differential
Flying Lead Probe Set



NOTE: Header are standard headers meeting single or differential FET probes pin diameter - Tektronix – Agilent – Lecroy

ZX104D12- Mictor 38 Plug pin configuration

Layer

TOP	**J2**	**2**	**6**	**10**	**14**	**18**	**22**	**26**	**30**	**34**	**38**
		1	**5**	**9**	**13**	**17**	**21**	**25**	**29**	**33**	**37**

TOP	**Mictor_Plug**	**J1**	**1, 3, 5, 7, 9, .. 37**
BOTTOM			**2, 4, 6, 8, 10, .. 38**

BOTTOM	**J3**	**4**	**8**	**12**	**16**	**20**	**24**	**28**	**32**	**36**	**GND**
		3	**7**	**11**	**15**	**19**	**23**	**27**	**31**	**35**	**GND**

Header numbering refers to the Mictor's pin number
"GND" header pins are connected to the 2 internal ground layers as well as top/bottom GND fills.

Test Point	Mictor pin #	Duplicate pin # at header	Function*
DA 4	4	SDA/4	I2C Data
CL2	2	SCL/2	I2C Clock
VG3	3	VG/3	Ground
5V1	1	5V/1	Supply
GND	center TAP	GND	

"*" Reserved specific board design function, not applicable to all designs.

GND TP is connected to Mictor's GND center tap as well as 2 internal ground planes.

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: ZX104D12-38-PLUG

DESCRIPTION: Differential Mictor breakout adapter 38 pin Plug

CHECKED: M. MARINA
DRAWN: SLAVIK
REVISSION: 1.0
SHEET: 1 OF 1