

**Product Description:** **ZX127HSEC6-70V** is Samtec HSEC6 0.6mm pitch also referred as Mini Cool Edge IO , MCIO / SFF-TA-1002 , breakout adapter. ZX127HSEC6-70V is designed for test & measurements of Add-In-Card, AIC, in real-time electrical test & measurements, signal integrity , characterization, manufacturing loopback test applications.

ZX127HSEC6-70V is breakout adapter, supporting Samtec GENERATE HSEC6 / MCIO edge card 0.6mm pitch connectors using 1.6mm PCB thickness. It provides full access to all HSEC6 / MCIO connector's signals via onboard headers for purpose of test & measurement of AIC.

- 1- Provides access to all Samtec HSEC6 / MCIO signals via onboard headers.
- 2- The headers are standard 0.1" ( 2.54mm ) pitch.
- 3- Listed number adjacent to each header's pin is in reference to the Samtec HSEC6 / MCIO connector's pin.
- 4- All traces are impedance controlled.
- 5- Four, 4, layers PCB design, inner layers are GND planes.
- 6- Accessible GND test point, The test point is connected to inner GND planes.
- 7- Ease of interface with single channel and differential scope probes.
- 8- Facilitates Add in Card, AIC, testing & development.
- 9- Flying lead wire assembly or similar is recommended – See ordering information

**Electrical:** Insertion loss > -2dB @6GHz  
Trace impedance: 50 Ω  
Operating Temperature: -55°C to +125°C  
Connector: Samtec HSEC6 / MCIO 0.60mm pitch  
Mates with: Add in Card, edge card test board  
Pitch: 0.60mm pin to pin pitch  
Thickness: 1.6mm ( 0.062" )  
Plating: 10μ" ( 0.25μm )  
Header:  
Pitch: 0.1" ( 2.54mm ) pin to pin pitch  
Pin: Square 0.025" ( 0.635mm )  
Height: 0.24" ( 6mm )  
Plating: Gold Flash

**Application:** Manufacturing test measurement & re-use, design, testing , debugging loopback test, characterization , pre-bringup , bringup , interface

**Mates with :** Samtec GENERATE High Speed Edge Card Add in card HSEC6 & GC6 cable assembly  
Industry standard Mini Cool Edge IO , MCIO , SFF-TA-1016, SFF-TA\_1002, GEN-Z 1C  
Amphenol G97, GH01 series. ACES Electronics, LOTES  
MET005610101011 ME1005610203071 ME1005610201091 ME1005611201041  
ME1005611202041 ME1005610211081 ME1005610205081 ME1005613401101  
ME1005634478101

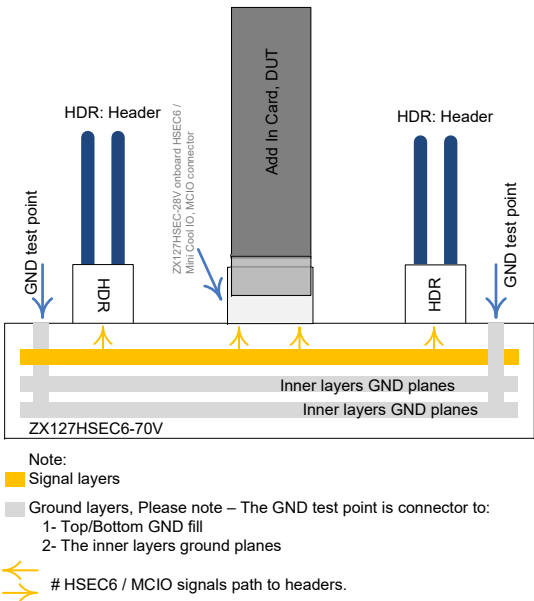
**Industry Standard :** HSEC6 & MCIO connectors have been adopted by industry standards such as:  
SFF-TA\_1002, SFF-TA-1016, PCI Express Gen 3.0, 4.0, 5.0, 6.0, OCP DC-MHS ( HSIO recommended )  
Supporting Up to 64 Gbps PAM4 performance. PCIe , NVMe , SAS ,SFP(+) ,SFP 28

Notice

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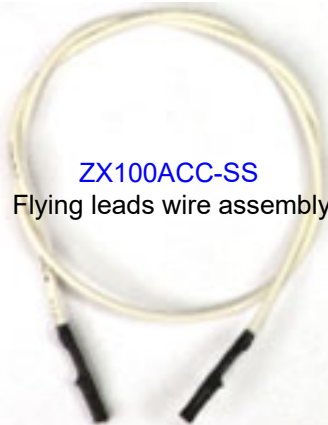
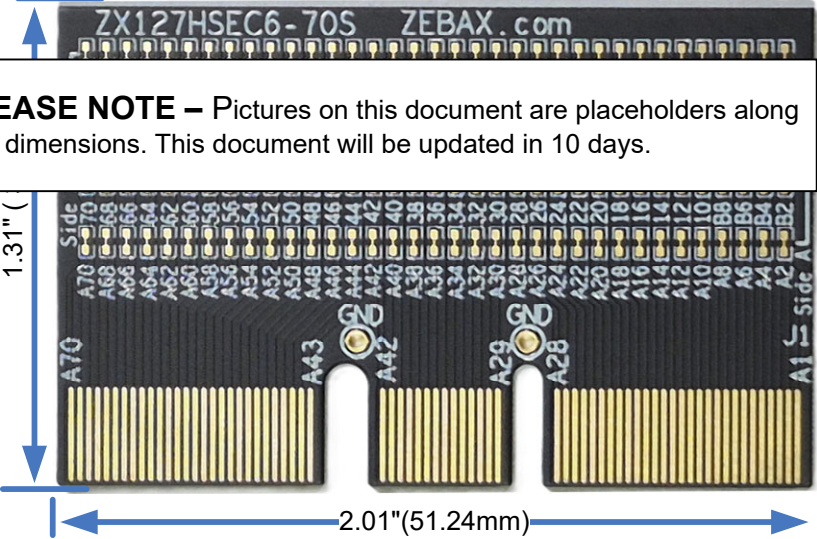
ZX127HSEC6-70V simplified cross section diagram



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

**PLEASE NOTE –** Pictures on this document are placeholders along with dimensions. This document will be updated in 10 days.



ZX127HSEC6-70V package includes:

| Part number    | Quantity | Description               |
|----------------|----------|---------------------------|
| ZX127HSEC6-70V | 1        | Breakout Adapter          |
| ZX100ACC-SS    | 0        | Flying lead wire assembly |

Note

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

| ZEBAX TECHNOLOGIES   |                |                      |
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| WWW.ZEBAX.COM  |                |                      |
| SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT               |                | ASSEMBLY DRAWING     |
|  |                | ITEM: ZX127HSEC6-70V |
| DESCRIPTION: Samtec HSEC6 / Mini Cool IO , MCIO , Breakout Adapter |                |                      |
| CHECKED: M. MAHIN  | DRAWN: KADIJEH | REVISION: 1.0        |
|  |                | SHEET: 1 OF 2        |

