

Accessories

SI Test Boards

SI Test Boards

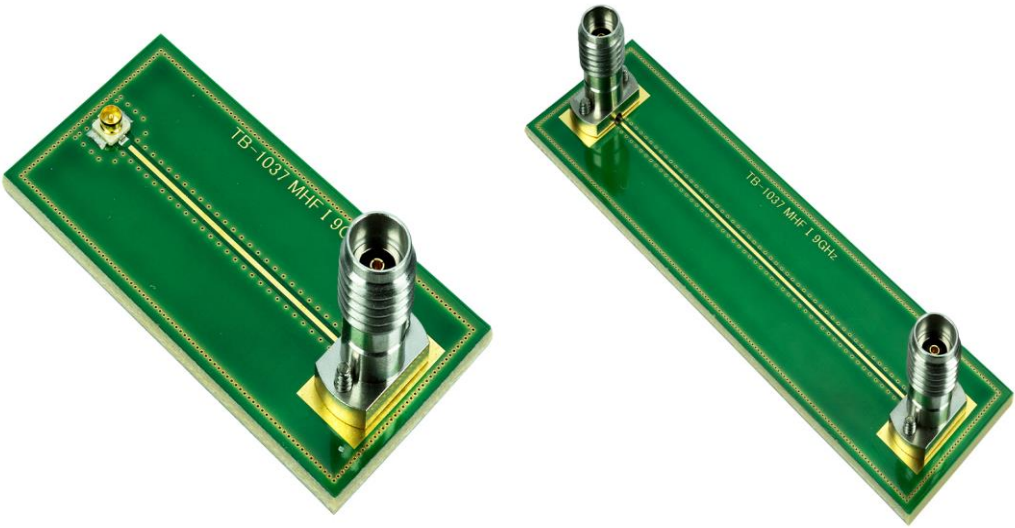
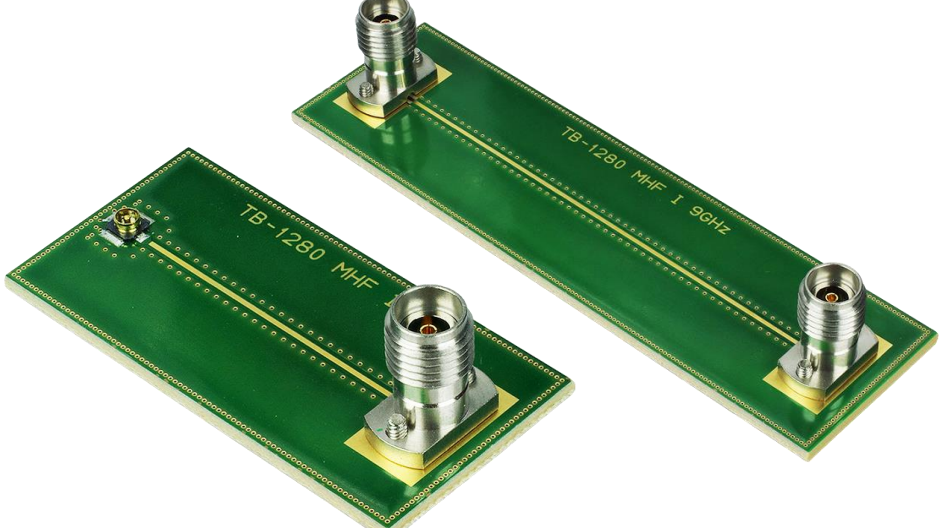
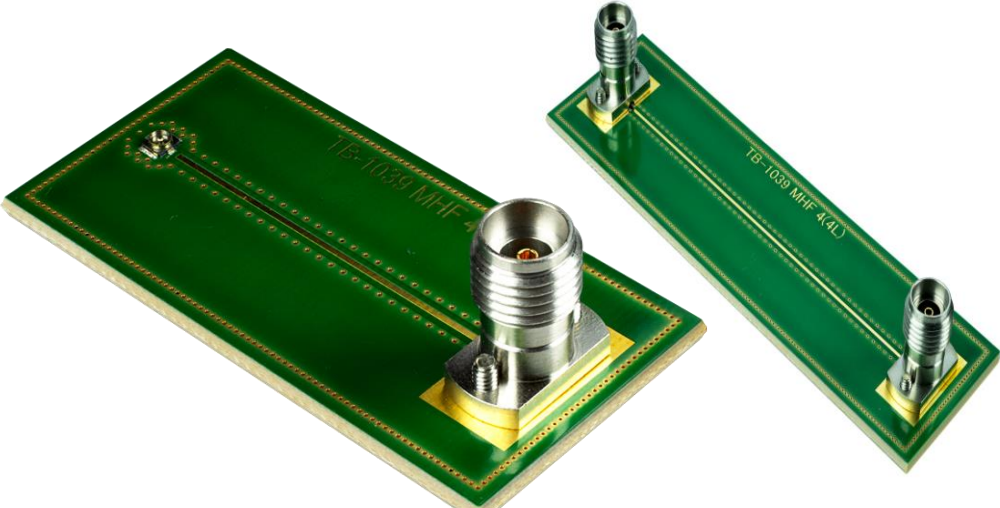
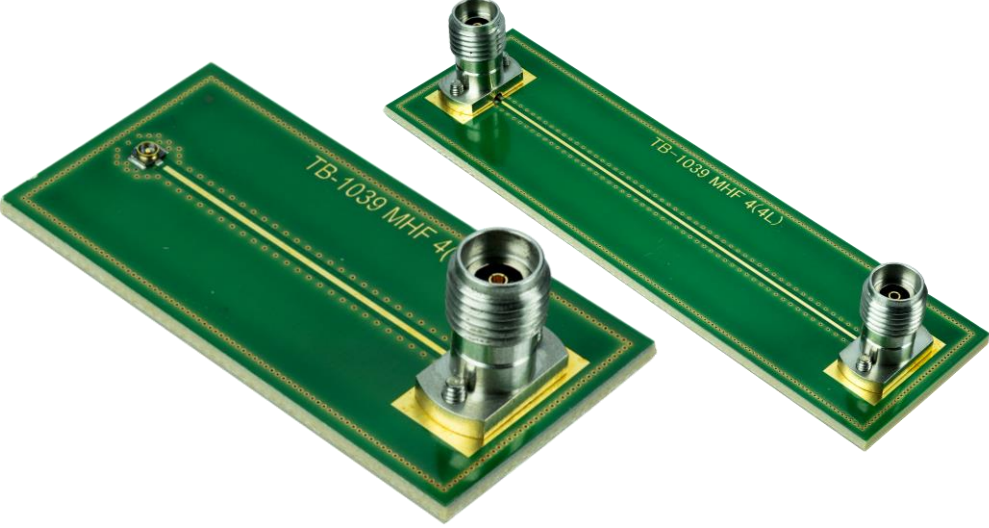
Signal Integrity testing, measures and analyzes the extent to which high-speed signals maintain their integrity when transmitted through a connector.

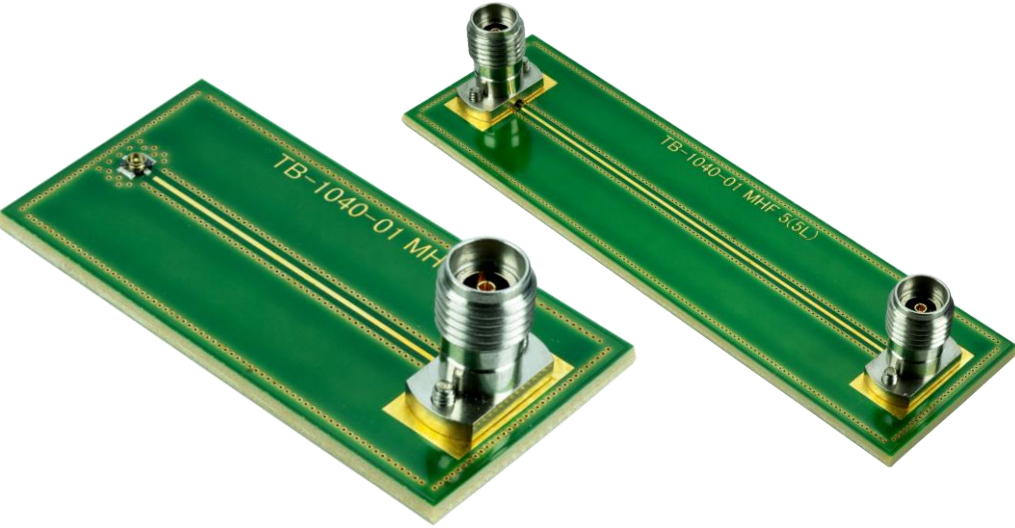
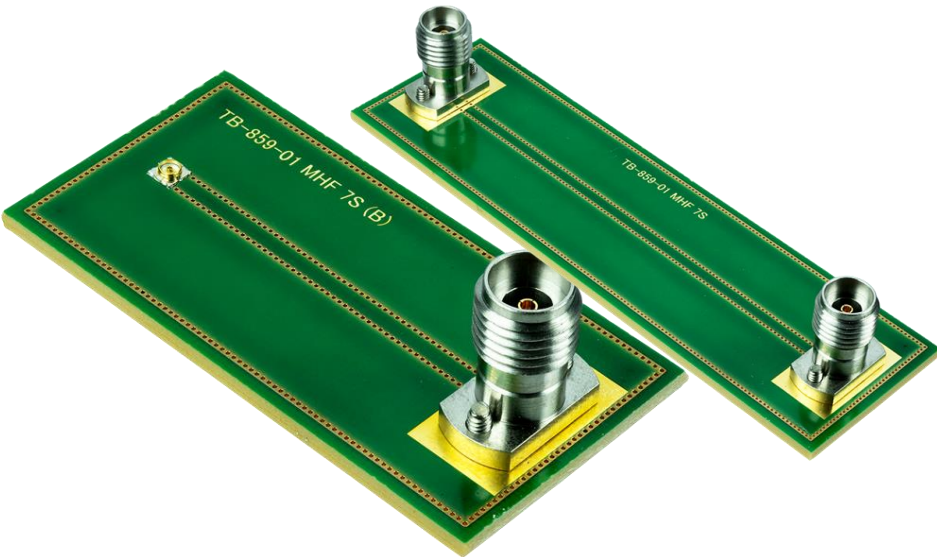
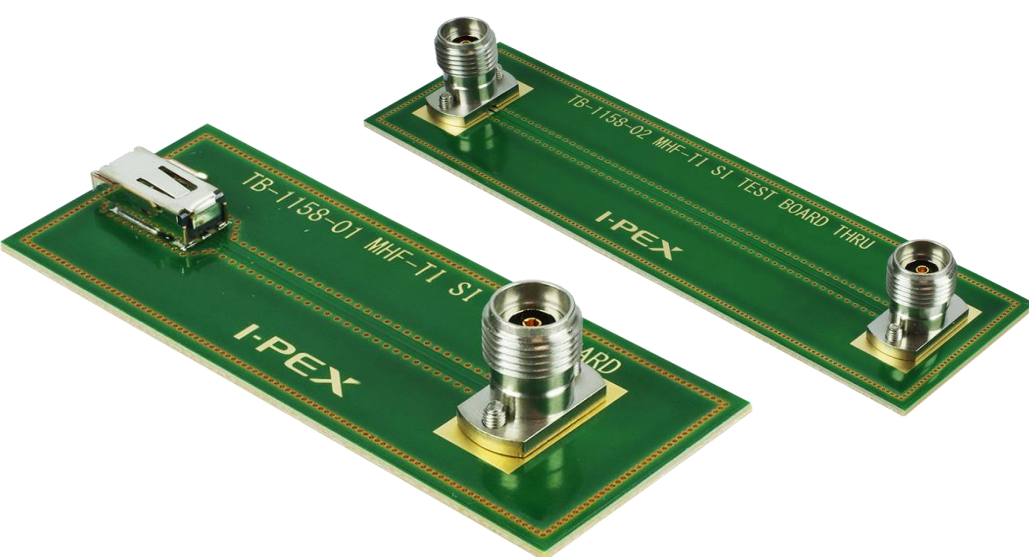
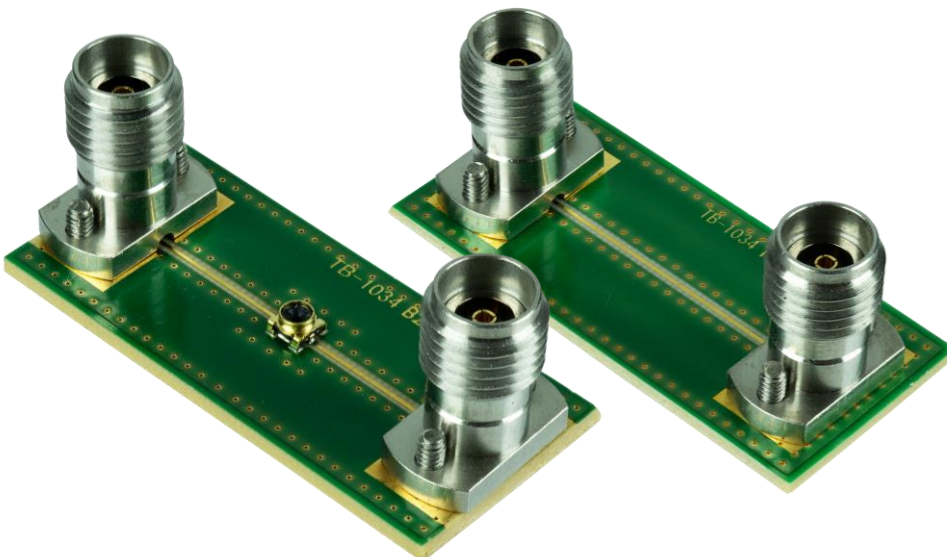


I-PEX offers SI Test Boards (Signal Integrity Test Boards) designed for evaluating the high-speed transmission characteristics of connectors and harnesses. The SI test boards enable comprehensive signal integrity (SI) evaluation not only of the connector itself, but also of the entire test board, including high-speed signal traces on the PCB.

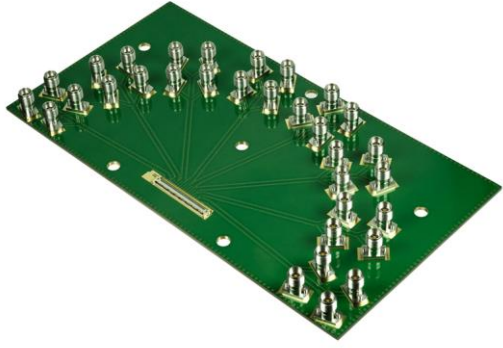
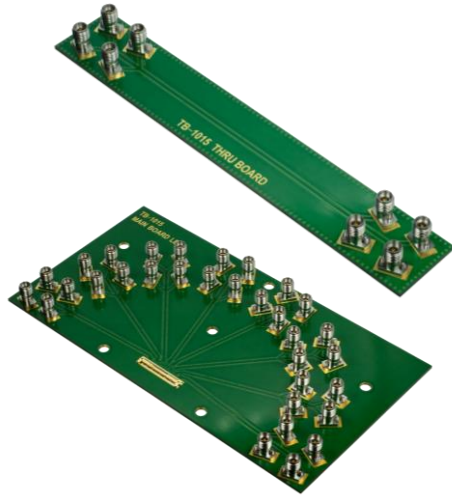
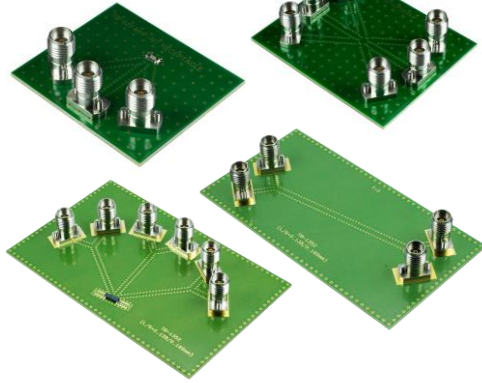
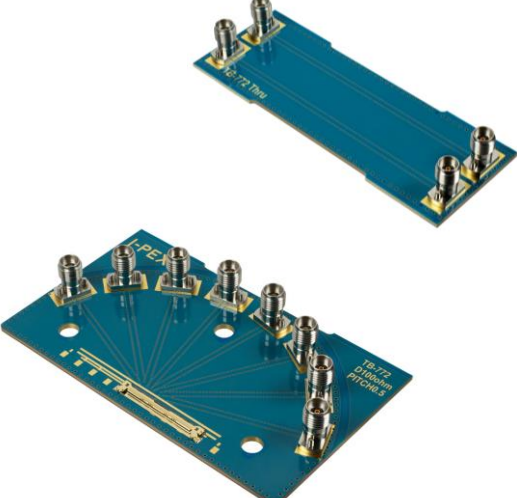
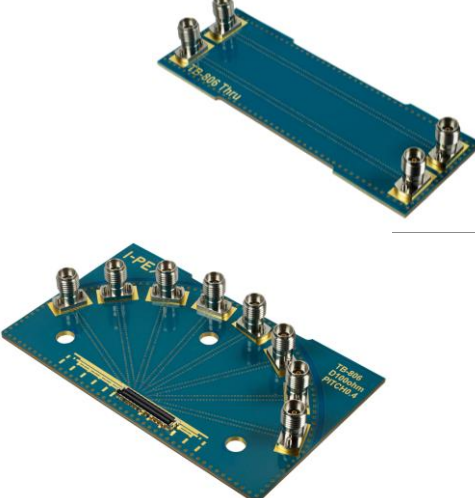
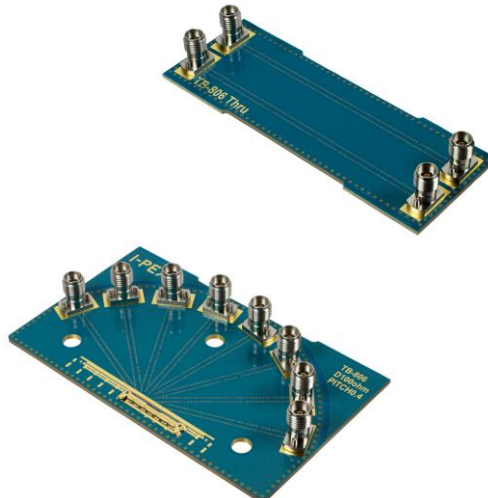
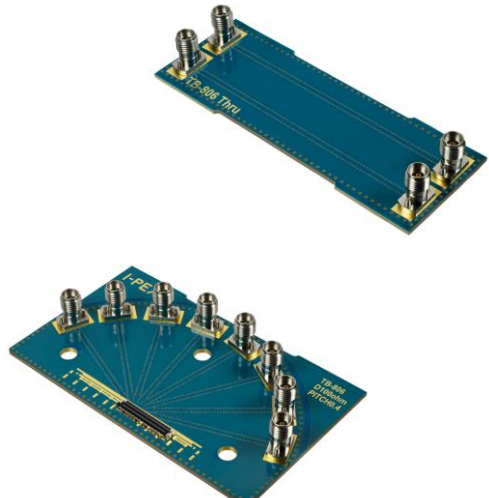
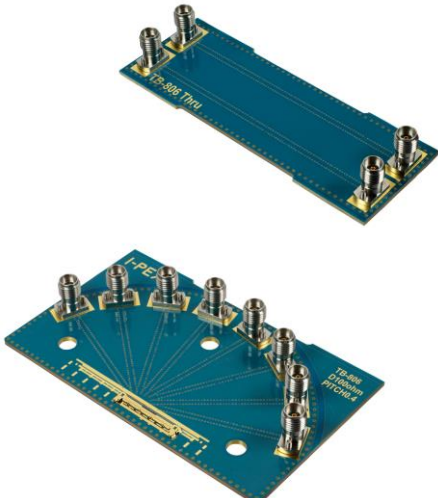
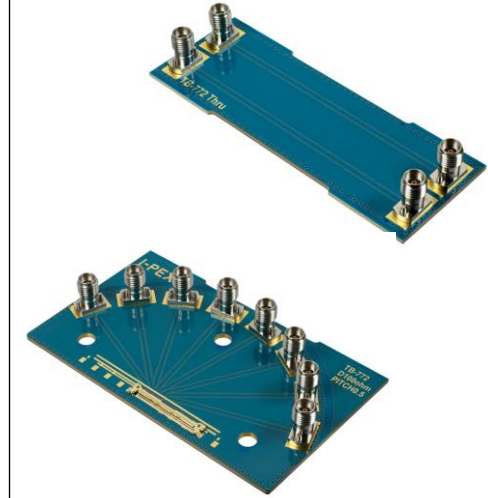
By using SI test board, key signal integrity parameters such as insertion loss, return loss, VSWR, and crosstalk can be measured with high accuracy. These test boards are widely used for performance verification and design evaluation of high-speed interfaces.

SI Test Boards for MHF series

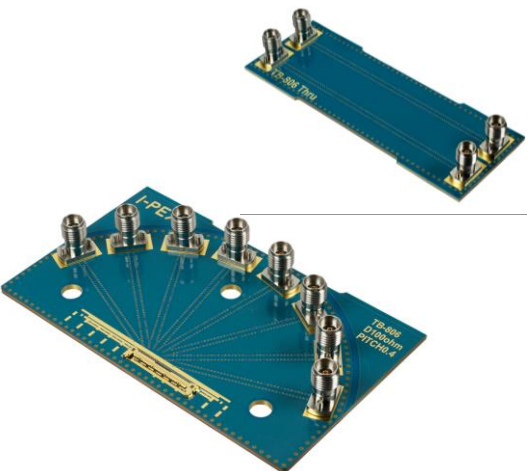
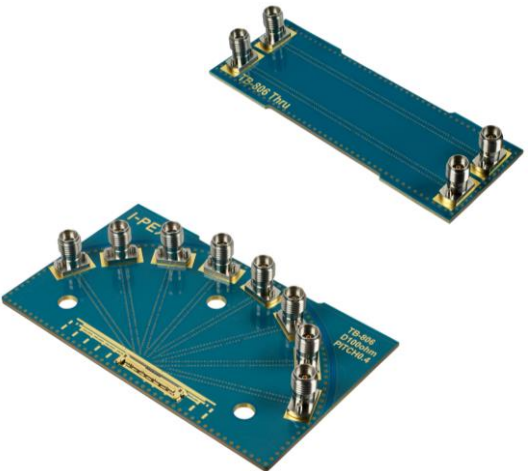
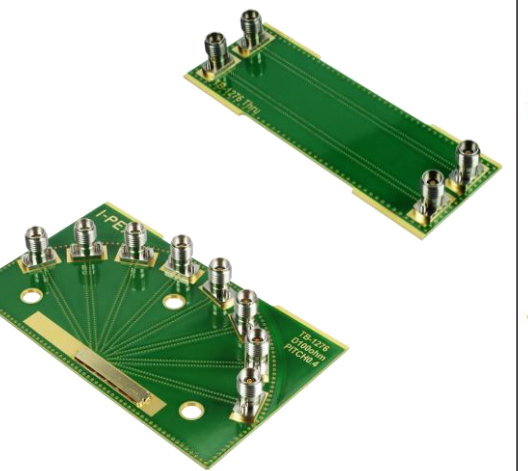
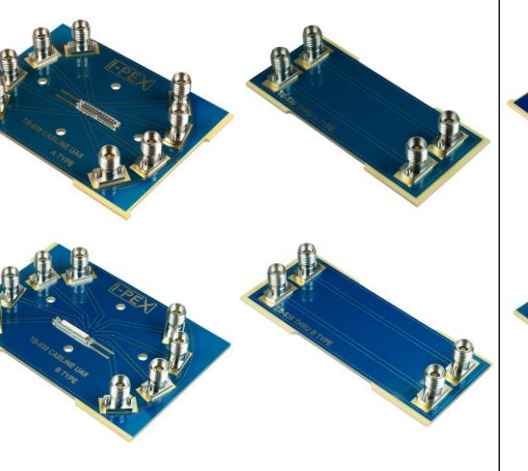
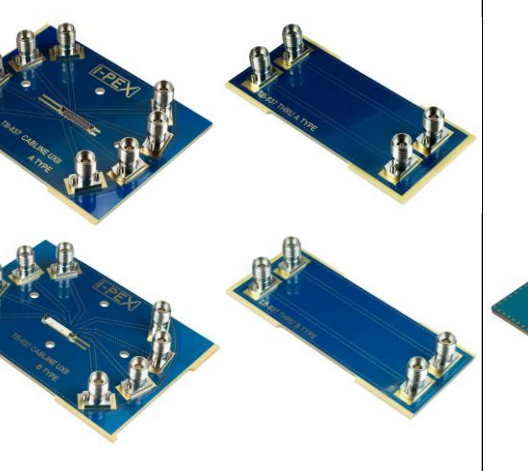
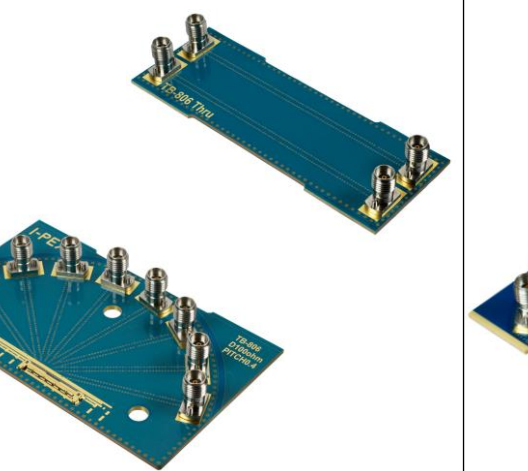
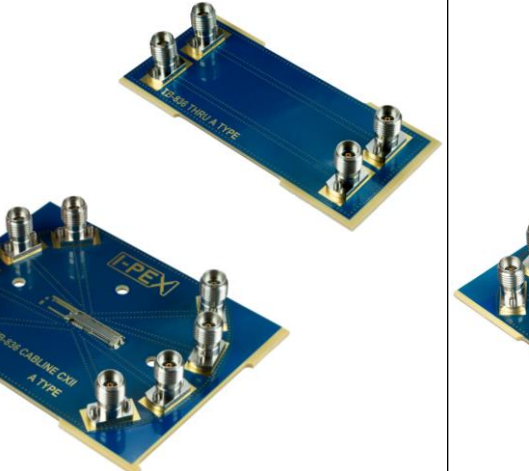
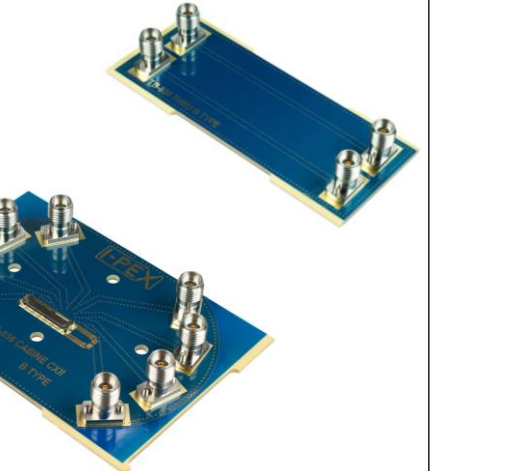
Type	MHF® I / MHF® I LK	MHF® I (4 pads receptacle)	MHF® 4	MHF® 4L / MHF® 4L LK
Appearance (Reference)				
Part Number	91604-001B-001	91616-001B-001	91603-001B-001	91602-001B-001

Type	MHF® 5 / MHF® 5L	MHF® 7S	MHF® -TI	MHF® -SW23
Appearance (Reference)				
Part Number	91605-001B-001	91606-001B-001	91666-001B-001	91607-001B-001

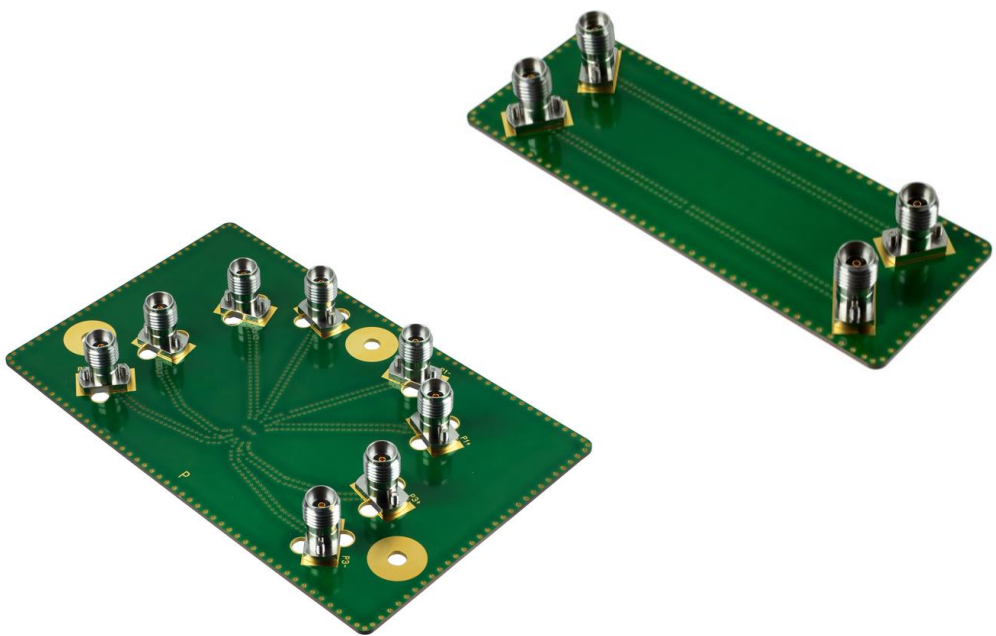
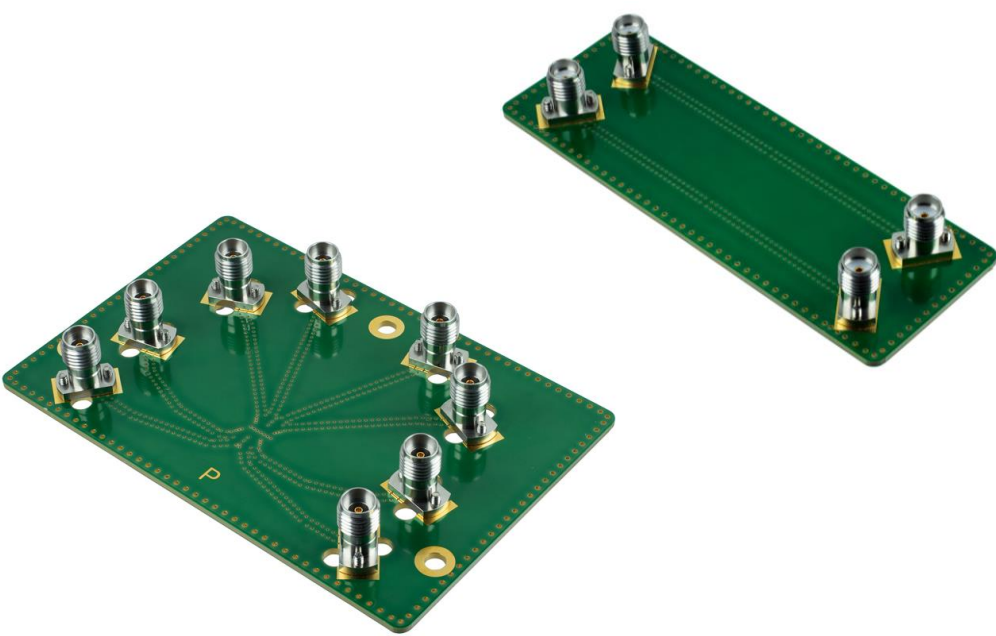
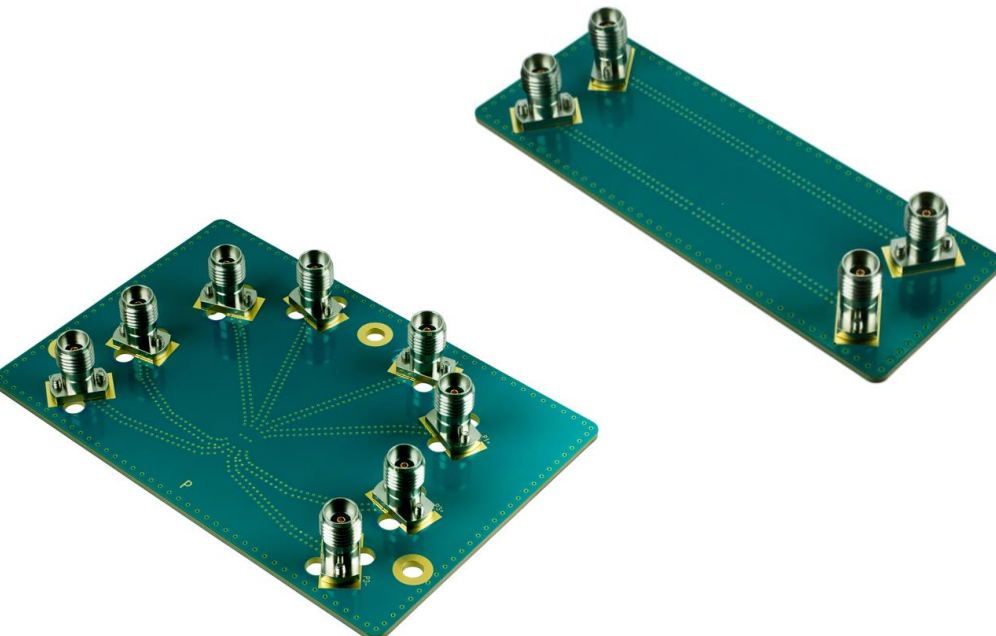
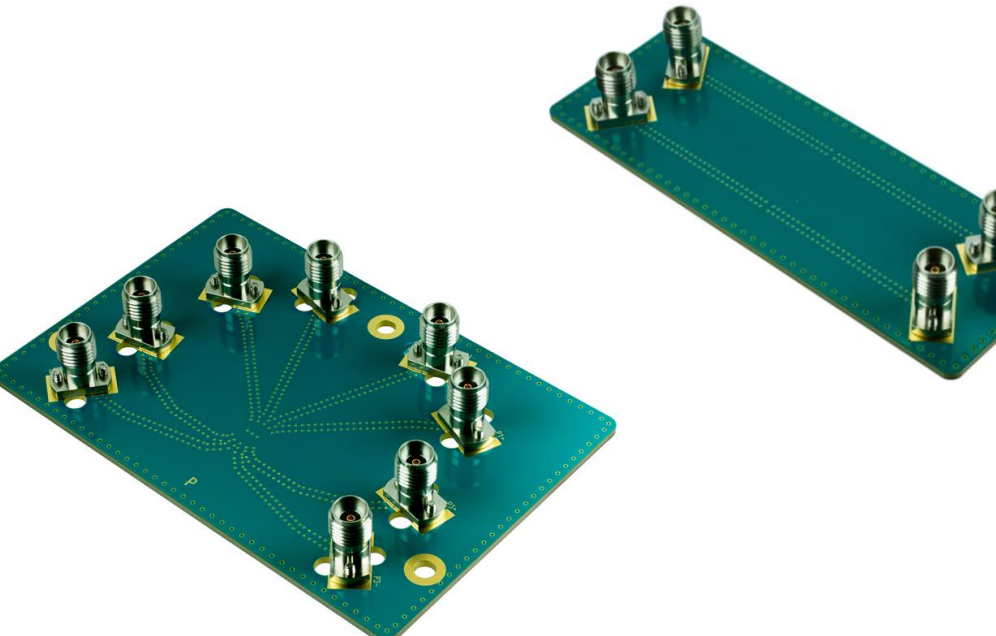
SI Test Boards for CABLINE series

Type	CABLINE®-CA IIP PLUS	CABLINE®-CAP	CABLINE®-UY	CABLINE®-VS II	CABLINE®-CA II	CABLINE®-CA II PLUS	CABLINE®-UM	CABLINE®-CA	CABLINE®-VS
Appearance (Reference)									
Description Part Number	main-board A 91623-060B-001	50 pin 91616-001B-001	5 pin 91565-005B-001	20 pin 91579-020B-001	20 pin 91568-020B-001	60 pin 91548-060B-001	30 pin 91580-030B-001	10 pin 91582-010B-001	20 pin 91575-020B-001
	main-board B 91623-060B-002	-	10 pin 91688-010B-001	30 pin 91579-030B-001	30 pin 91568-030B-001	-	40 pin 91580-040B-001	12 pin 91582-012B-001	30 pin 91575-030B-001
	-	-	12 pin 91688-012B-001	40 pin 91579-040B-001	40 pin 91568-040B-001	-	50 pin 91580-060B-001	20 pin 91582-020B-001	40 pin 91575-040B-001
	-	-	-	-	50 pin 91568-050B-001	-	60 pin 91580-050B-001	30 pin 91582-030B-001	50 pin 91575-050B-001
	-	-	-	-	-	-	-	40 pin 91582-040B-001	-
	-	-	-	-	-	-	-	50 pin 91582-050B-001	-
	-	-	-	-	-	-	-	60 pin 91582-060B-001	-

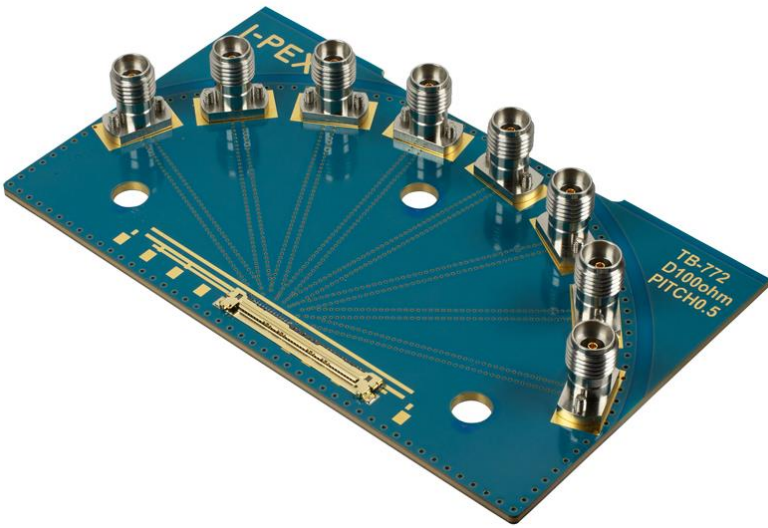
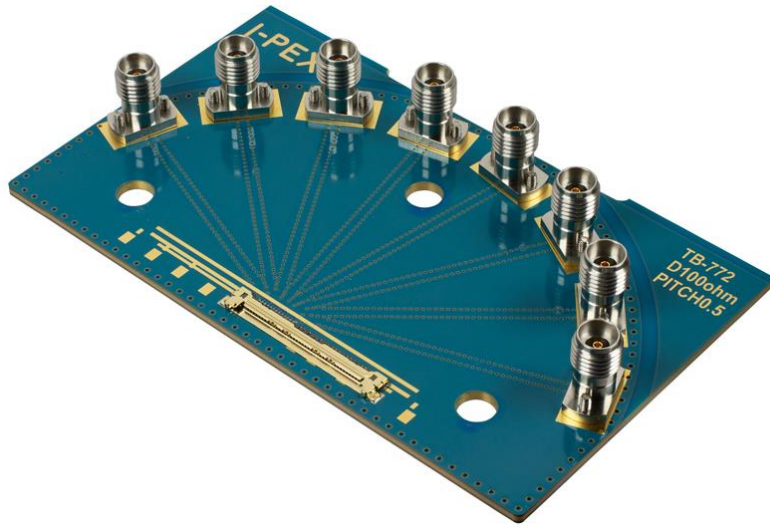
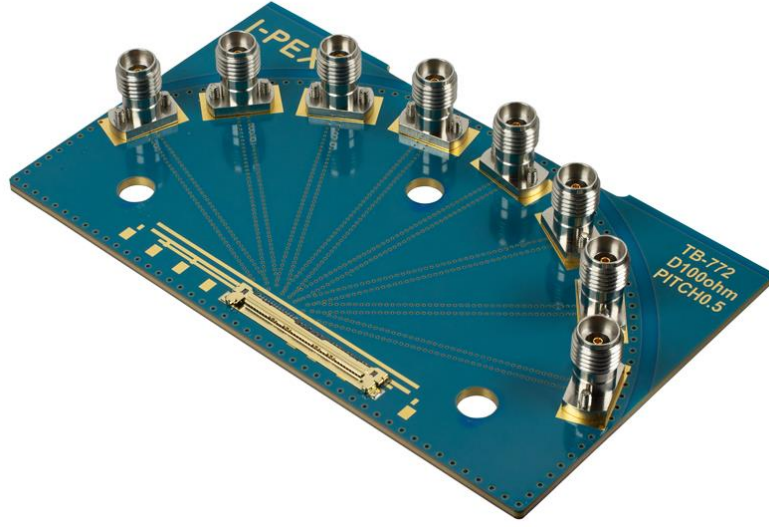
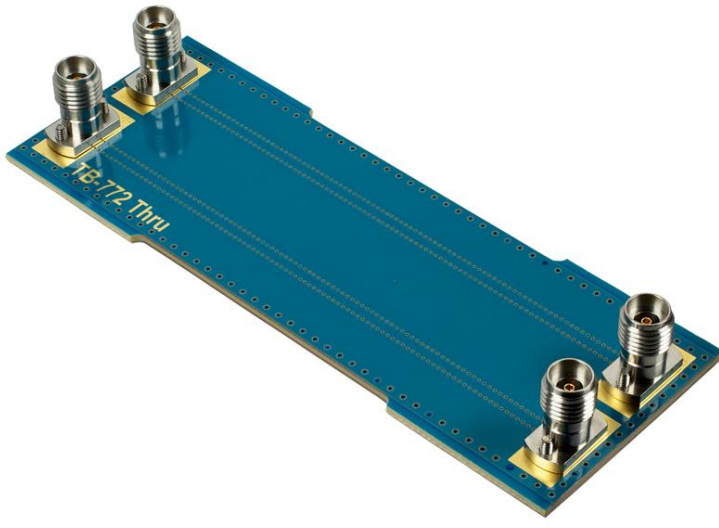
SI Test Boards for CABLINE series

Type	CABLINE®-CAL	CABLINE®-CA IIF PLUS	CABLINE®-CAL IIF	CABLINE®-UA II	CABLINE®-UX II	CABLINE®-SS	CABLINE®-CX II With Cover	CABLINE®-CX II Without Cover
Appearance (Reference)								
Description Part Number	30 pin 91689-030B-001	60 pin 91548-060B-001	50 pin 91690-050B-001	(type-A) 26 pin 91567-026B-001	(type-A) 30 pin 91576-030B-001	10 pin 91586-010B-001	(type-A) 40 pin 91583-040B-001	(type-B) 40 pin 91584-040B-001
	40 pin 91689-040B-001	-	-	(type-A) 32 pin 91567-032B-001	(type-A) 34 pin 91576-034B-001	14 pin 91586-014B-001	-	-
	-	-	-	(type-A) 40 pin 91567-040B-001	(type-A) 40 pin 91576-040B-001	20 pin 91586-020B-001	-	-
	-	-	-	(type-A) 50 pin 91567-050B-001	(type-A) 50 pin 91576-050B-001	30 pin 91586-030B-001	-	-
	-	-	-	(type-B) 26 pin 91585-026B-001	(type-B) 30 pin 91577-030B-001	32 pin 91586-032B-001	-	-
	-	-	-	(type-B) 32 pin 91585-032B-001	(type-B) 34 pin 91577-034B-001	35 pin 91586-035B-001	-	-
	-	-	-	(type-B) 40 pin 91585-040B-001	(type-B) 40 pin 91577-040B-001	-	-	-
	-	-	-	(type-B) 50 pin 91585-050B-001	(type-B) 50 pin 91577-050B-001	-	-	-

SI Test Boards for NOVASTACK series

Type	NOVASTACK® 35-HDH	NOVASTACK® 35-HDN	NOVASTACK® 35-HDP	NOVASTACK® 35-HDP 12
Appearance (Reference)				
Description Part Number	60 pin 91594-060B-001	30 pin 91601-030B-001	28 pin 91654-028B-001	22 pin 91723-022B-001
	-	-	34 pin 91654-034B-001	56 pin 91723-056B-001
	-	-	42 pin 91654-042B-001	62 pin 91723-062B-001
	-	-	56 pin 91654-056B-001	-
	-	-	62 pin 91654-062B-001	-

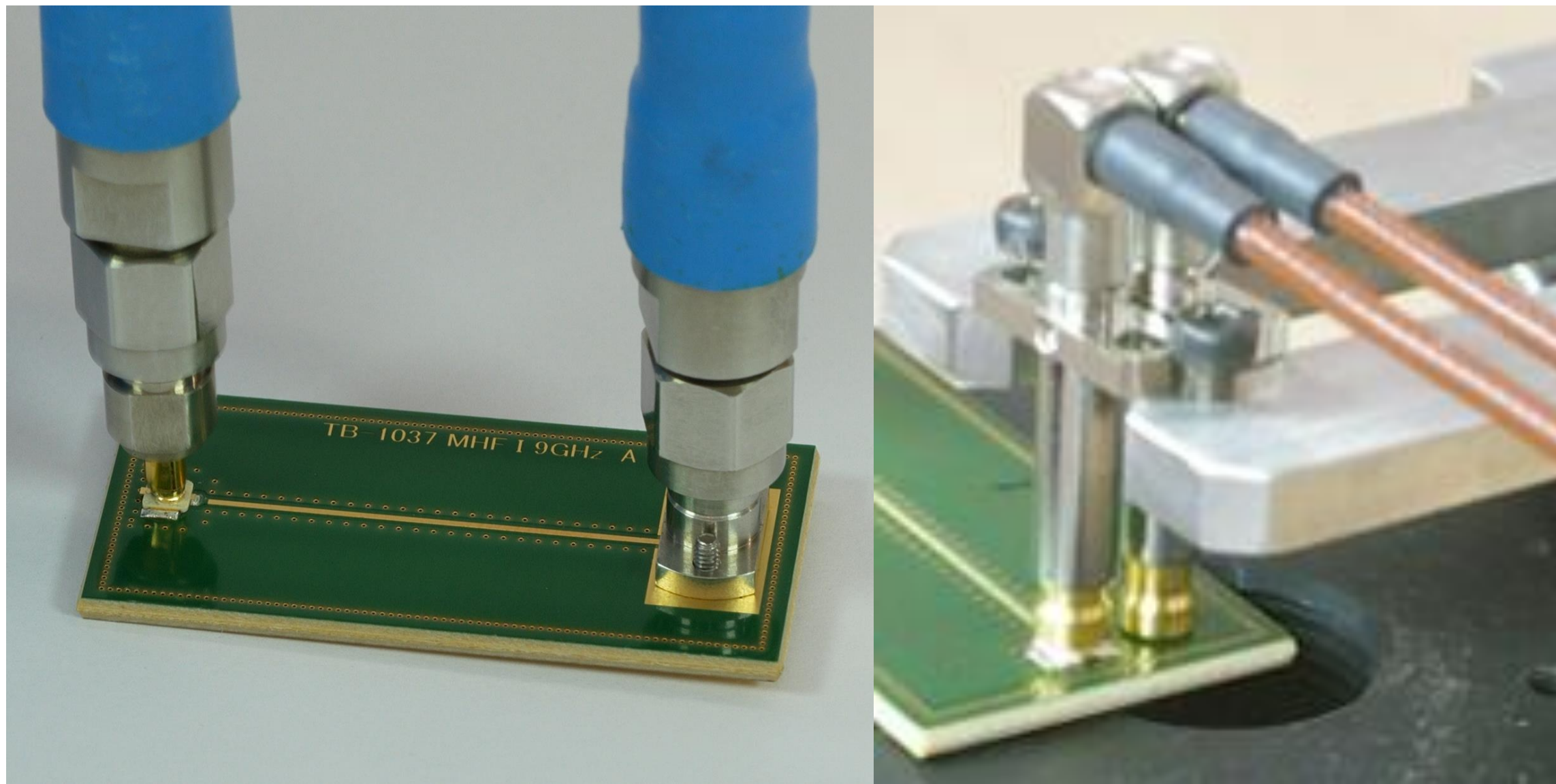
SI Test Boards for EVAFLEX series

Type	EVAFLEX® 5-HD	EVAFLEX® 5-SE-G VT	EVAFLEX® 5-VS		
Appearance (Reference)					
Description Part Number	24 pin 91574-024B-001	20 pin 91573-020B-001	10 pin 91570-010B-001	TYPE CH 10 pin 91570-010B-002	TYPE R 30 pin 91570-030B-003
	-	30 pin 91573-030B-001	15 pin 91570-015B-001	TYPE CH 15 pin 91570-015B-002	TYPE R 40 pin 91570-040B-003
	-	40 pin 91573-040B-001	20 pin 91570-020B-001	TYPE CH 20 pin 91570-020B-002	TYPE R 50 pin 91570-040B-003
	-	50 pin 91573-050B-001	24 pin 91570-024B-001	TYPE CH 24 pin 91570-024B-002	-
	-	60 pin 91573-060B-001	30 pin 91570-030B-001	TYPE CH 30 pin 91570-030B-002	-
	-	-	40 pin 91570-040B-001	TYPE CH 40 pin 91570-040B-002	-

Adapters

Adapters

Adapters are essential for verifying that products are properly set and ready to deliver optimal performance in their applications.



These adapters are available for both plugs and receptacles, enabling reliable inspection and ensuring correct installation.

For plug inspection, Electrical Performance Check and Voltage/Continuity Check tools are provided.

Receptacle inspection tools, on the other hand, support Electrical performance check only. The lineup includes various types to suit different applications, such as Standard series, High Cycle types with different durability ratings, and narrow-pitch types that enable operation on high-density PCB layouts.

SMA Adapters for MHF series

SMA Adapters for MHF® Plugs

Type	For electrical performance check		For voltage check
Appearance (Reference)			
Durability (cycles)	3,000		10,000
MHF® I MHF® I LK Plug	90193-001	-	90194-001
MHF® 4 MHF® 4L MHF® 4L LK Plug	-	90449-001	90449-003-01
MHF® 5 MHF® 5L Plug	90543-0001	-	90586-0002
MHF® 7S Plug	-	91255-0001	91245-0001

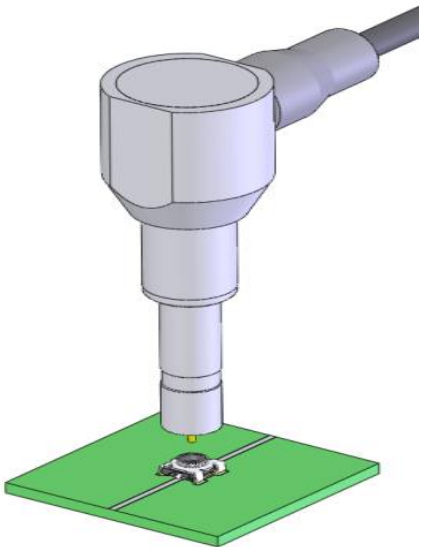
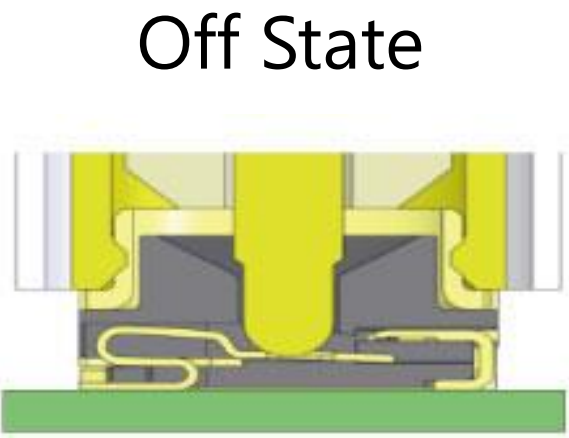
SMA Adapters for MHF® Receptacles

Type	Standard	For electrical performance check				
		High cycle series				
		Standard type	Narrow pitch type		Detachable type	
		Probe	Adapters cable (Attach to probe)	Probe	Adapters base (Attach to probe)	Probe
Appearance (Reference)						
Durability (cycles)	500	10,000	100	10,000	200,000	10,000
MHF® I Receptacle	90193-002	90539-001	90577-0100 (Cable: 100 mm)	90575-0001	90684-0001	90416-001
MHF® 4 MHF® 4L Receptacle	90449-002	90698-0001	90577-0200 (Cable: 200 mm) 90577-0350 (Cable: 350 mm)	90576-0001		90683-0001
MHF® 5 MHF® 5L Receptacle	90543-0002	90793-0001	90577-0750 (Cable: 750 mm)	90847-0001		90690-0001
MHF® 7S Receptacle	91256-0001	-	91197-300P 91197-300J	91136-0001 91145-0001	-	-

SMA Adapters for MHF series

SMA Adapters for MHF® Switch

Type	Cable probe	High cycle series	
	Friction lock	Standard probe	Floating probe
Appearance (Reference)			
Durability (cycles)	1,000	10,000	200,000
MHF®-SW23	90582-0300 (Cable: 300 mm) 90582-0400 (Cable: 400 mm)	90604-0001	90605-0001



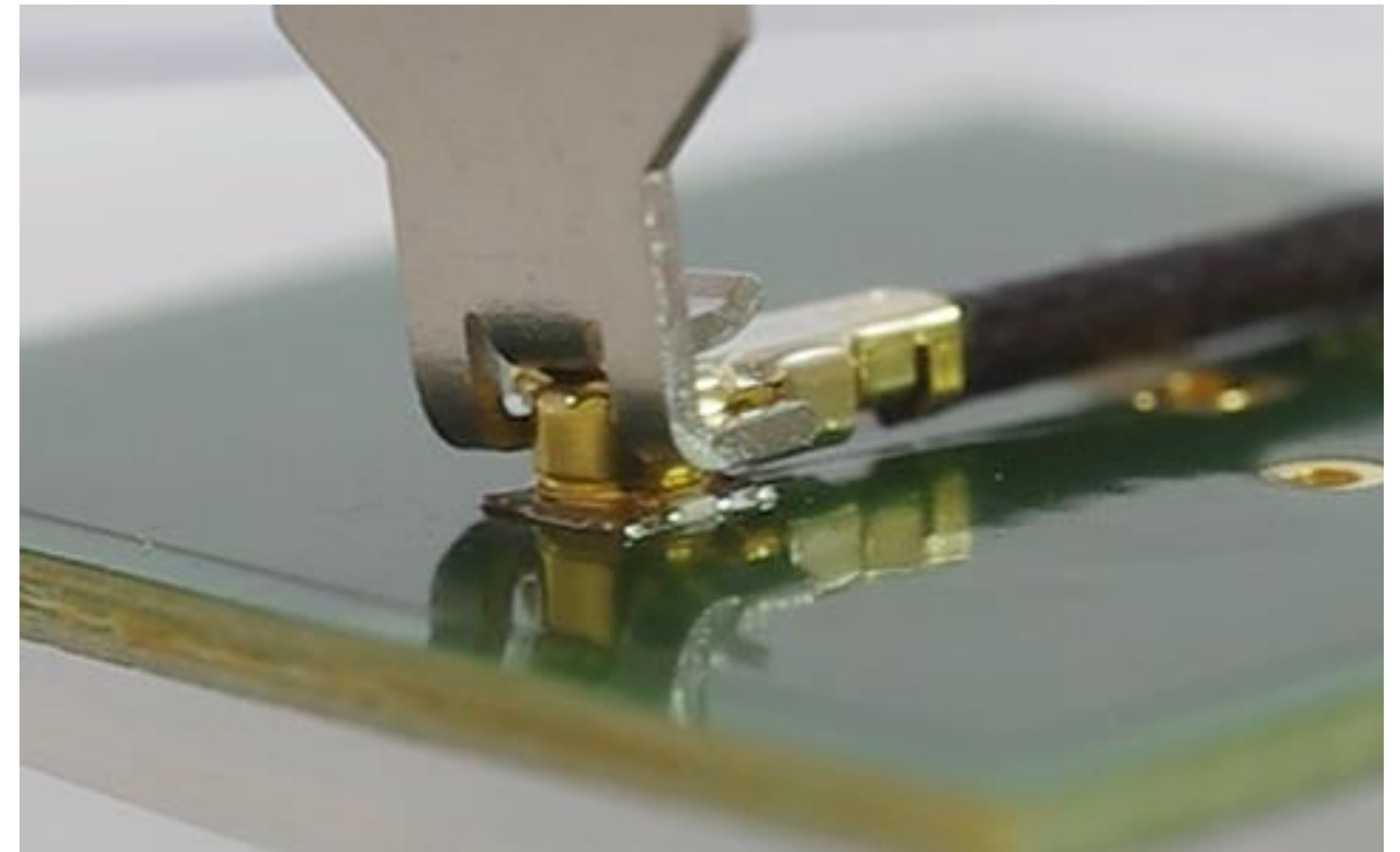


Insertion/Extraction Tools

Insertion/Extraction Tools

Dedicated insertion and extraction tools are available for the MHF® series, CABLINE® series, ISH® series, and IARPB® series products. These tools vary in shape and configuration: some are designed exclusively for insertion or extraction, while others combine both functions in a single tool.

Because the connectors must be mated precisely and the products are too small to handle reliably by hand, the use of dedicated insertion and extraction tools ensures secure operation and provides greater confidence during assembly and maintenance.



SMA Adapters for MHF series

Type	Insertion/ Extraction tool	Extraction tool	Insertion tool	Insertion/ Extraction tweezer	Unlocking, Extraction tweezer	Locking/Unlocking, Extraction tweezer	Locking/Unlocking, Insertion/ Extraction tweezer		Unlocking tool
Appearance (Reference)									
MHF® I	90224-001 90885-0001 (*1)	90192-001	-	-	-	-	-	-	-
MHF® I LK	-	-	-	-	91026-0001	91492-0001	-	-	-
MHF® 4	90435-001	-	-	90482-001	-	-	-	-	-
MHF® 4L	90609-0001 (*2) 90873-0001 (*3)	-	-	90616-0008 90615-0013	-	-	-	-	-
MHF® 4L LK	-	-	-	-	-	-	91166-0001	91493-0001	-
MHF® 5 MHF® 5L	90612-0001	-	90624-0001	-	-	-	-	-	-
MHF® 7S	91186-0001	-	-	-	-	-	-	-	-
MHF® -TI	-	-	-	-	-	-	-	-	91097-0001

Note

(*1): 90885-0001 is for 20767-001R

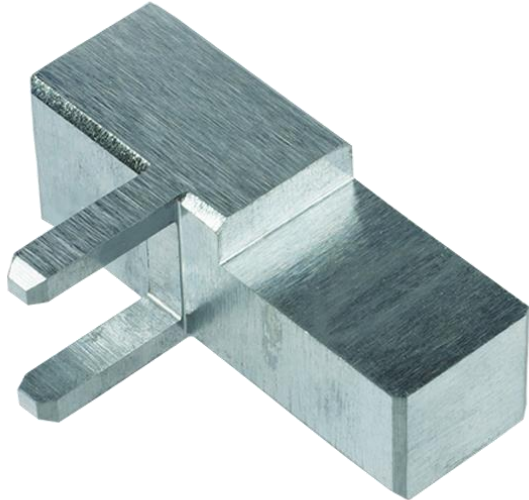
(*2): 90609-0001 is for 20572-001R-08 and 20565-001R-13

(*3): 90873-0001 is for 20632-001R-37

Insertion/Extraction Tools for CABLINE series

Type	Hand tool plug insertion/extraction	Hand tool extraction					Hand tool one-side- extraction
Appearance (Reference)							
CABLINE® -UY	5 pin: 91174-0001 10 pin: 91174-0002	-	-	-	-	-	-
CABLINE® -SS	-	10 pin 90296-110	14 pin 90296-114	20 pin 90296-120	30 pin 90296-130	-	-
	-	32 pin 90296-132	35 pin 90296-135	40 pin 90296-140	50 pin 90296-150	-	-
CABLINE® -UX II	-	26 pin 90466-026	32 pin 90466-032	34 pin 90466-034	40 pin 90466-040	50 pin 90466-050	90460-001
CABLINE® -UA II	-	-	-	-	-	-	90460-001

Extraction Tools for ISH / IARPB series

Type	ISH/ISHV releasing JIG for female terminal 0.5mm	ISH releasing JIG for female terminal 1.5mm	ISH releasing JIG for retainer -1	ISH/ISHV releasing JIG for retainer -2
Appearance (Reference)				
ISH® HORIZONTAL	91691-0001	91692-0001	91695-0001	91696-0001
ISH® VERTICAL	91691-0001	-	91695-0001	91696-0001
ISH® HORIZONTAL HYBRID	91691-0001	-	-	-
ISH® WIRE TO WIRE	91691-0001	-	-	91696-0001

Type	releasing JIG for terminal
Appearance (Reference)	
IARPB® HORIZONTAL	91693-0001
IARPB® VERTICAL	91694-0001

I-PEX Product Series



MHF[®]
Series
RF Connectors



EVAFLEX[®]
Series
MINIFLEX[®]
Series
FPC/FFC Connectors



AP
Series
Terminals



CABLIME[®]
Series
Micro-Coaxial/
Twinaxial
Connectors



ISH[®]
Series
IARPB[®]
Series
Wire-to-Board
Connectors



MINIDOCK[™]
Series
I/O Connectors



NOVASTACK[®]
Series
Board-to-Board
Connectors



SX
Series
Card Edge
Connectors



Please [contact us](#) for custom products.



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK, i-Fit and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative for more detailed information. [[i-pex.com](https://www.i-pex.com)]

Copyright © I-PEX Inc. 2026. All rights reserved.

CONFIDENTIAL C