

CABLINE®-CAP

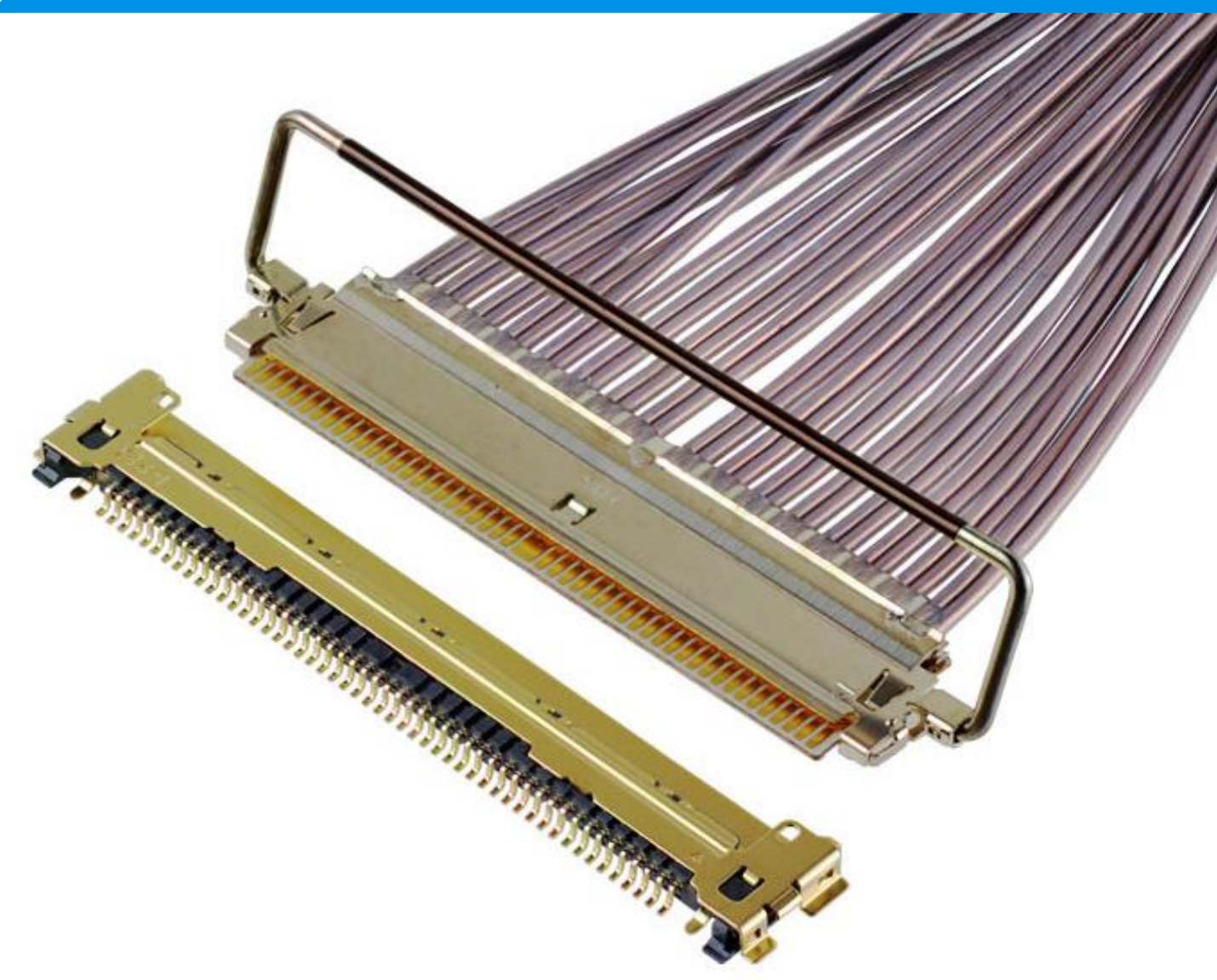
高速伝送対応 (64Gbps/lane PAM4)
0.4mmピッチ、水平嵌合タイプ細線同軸ケーブルアッセンブリ

Product Specifications:

Mating type	Horizontal	
Board Pitch (mm)	0.4	
Wiping Length (mm)	0.54	
Mated size (mm)	Height	1.15 ± 0.2
	Width	Formula: 5.75mm + (0.4mm * # of pins)
	Depth	6.86
Pin Counts	Range	Up to 60
	Available	50 (16 differential pair Max)

Applicable Cable Size:

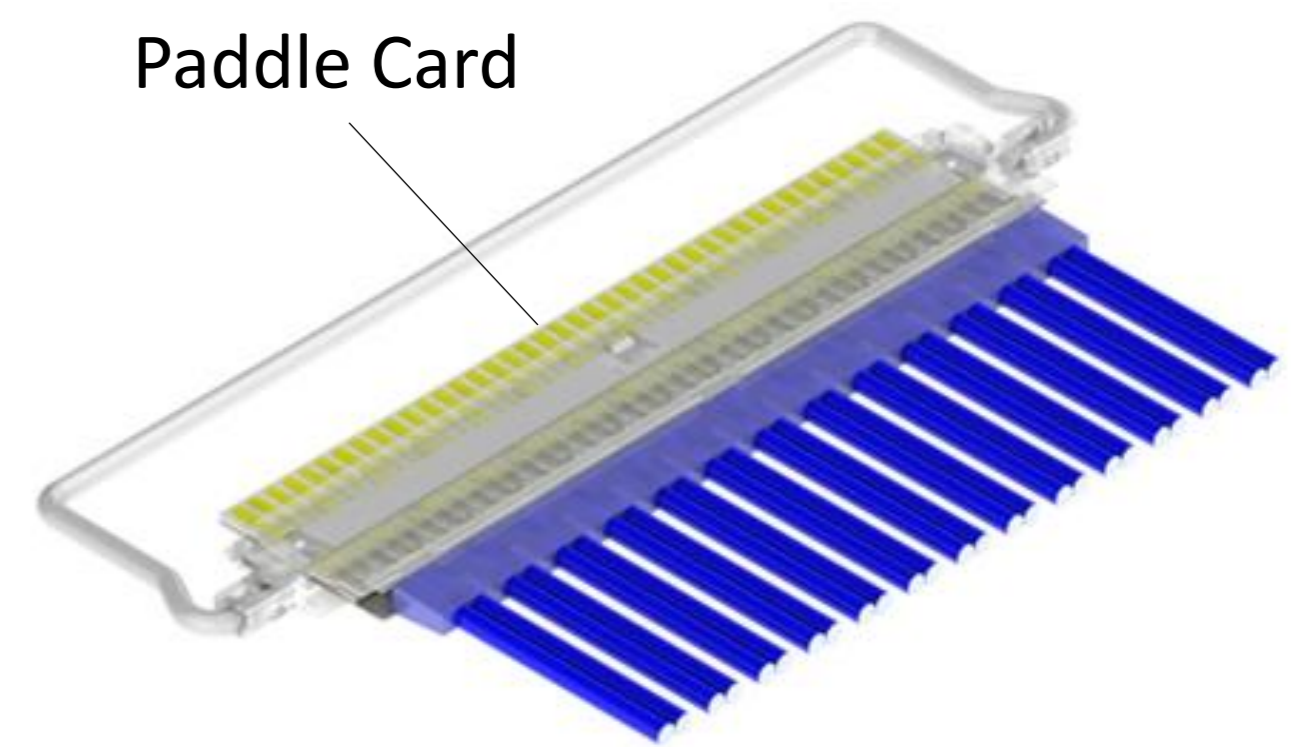
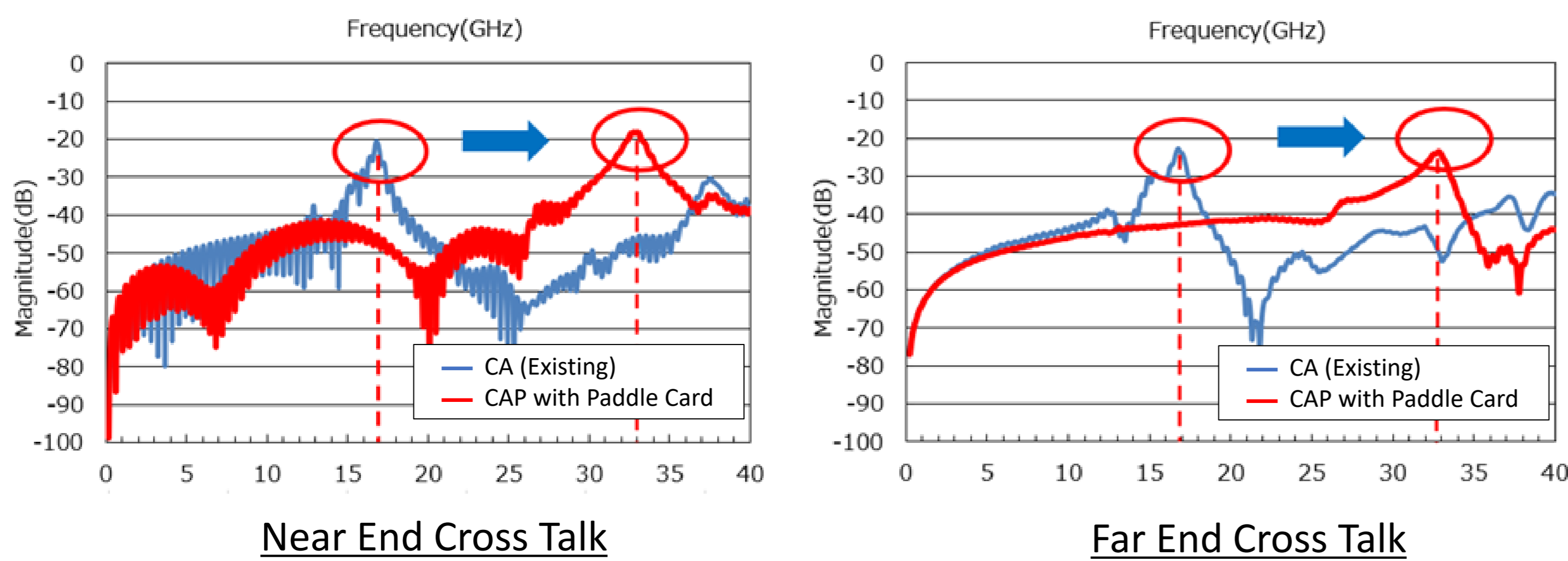
Maximum O.D. (mm)	0.47
Micro-Coaxial For Signal (AWG)	Diff 90 ohm: #38



*製品名CABLINE®-CAPは、ハーネス品の製品名称です。Receptacleは、CABLINE®-CAのReceptacle(PN 20525-#50E-02)です。
*Plugはハーネス品での提供となります。ケーブル長はご希望の長さにてカスタマイズが可能です。
*記載が無い極数の対応についてはお問い合わせ下さい。

▶ パドルカード技術を駆使した高速伝送 64Gbps/lane PAM4

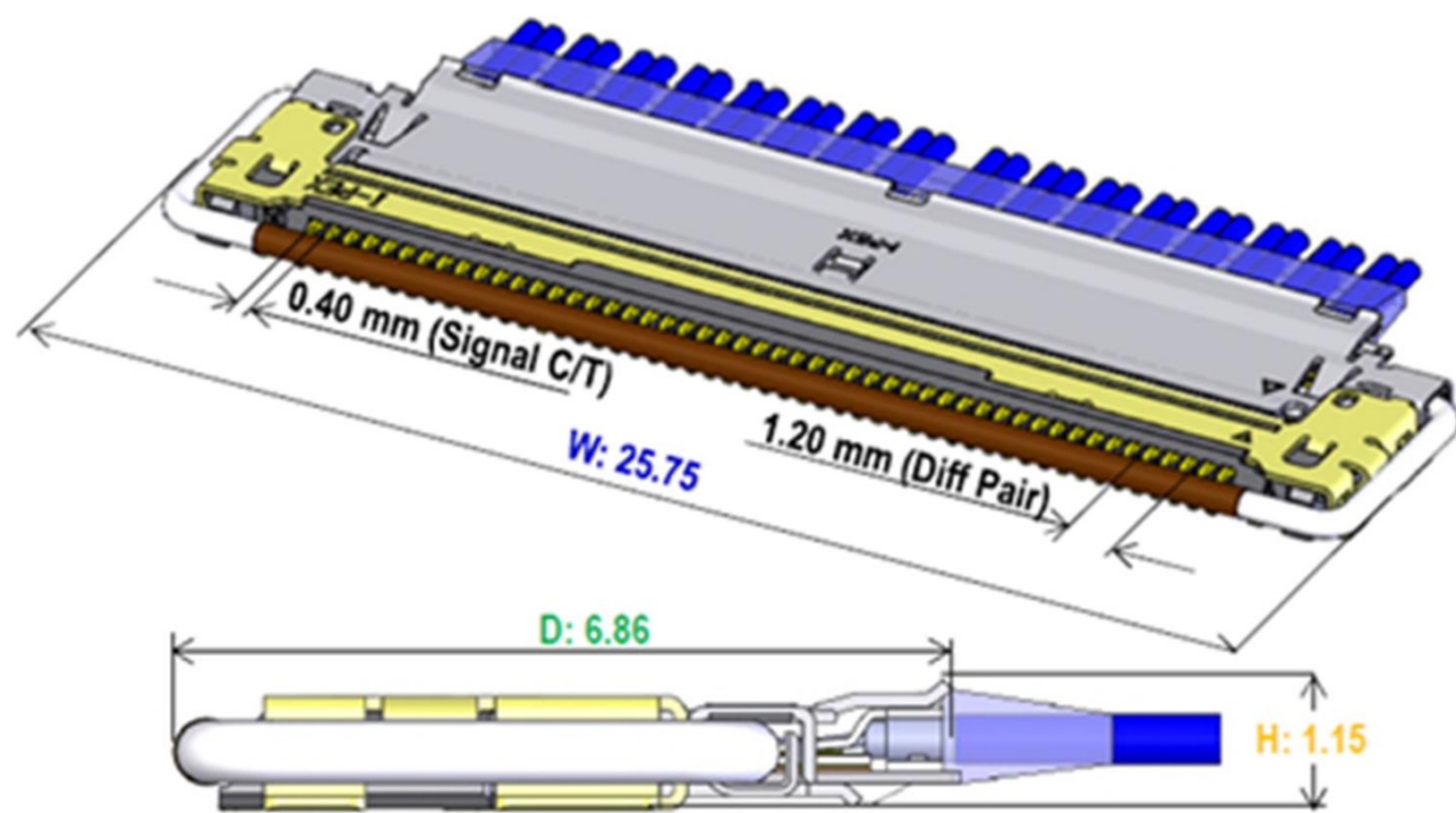
ケーブルプラグ部にパドルカードを採用する事で、信号品質を向上させ
既存のCABLINEシリーズから更なる高速伝送を実現



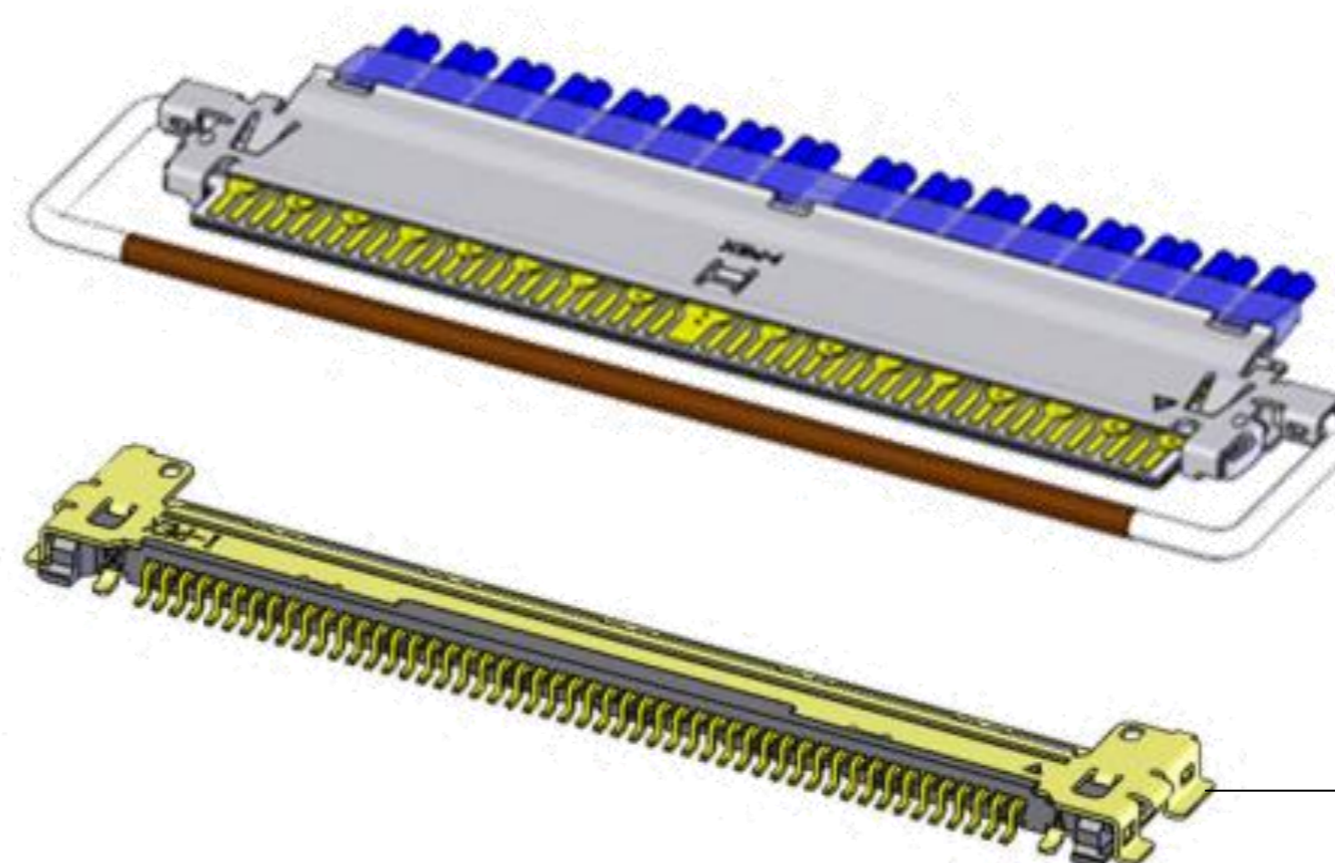
パドルカードの技術ページ

<https://www.i-pex.com/library/white-papers/paddle-card-technology>

▶ 低背でスペース制約のあるアプリケーションに最適 H=1.15mm



Mating condition



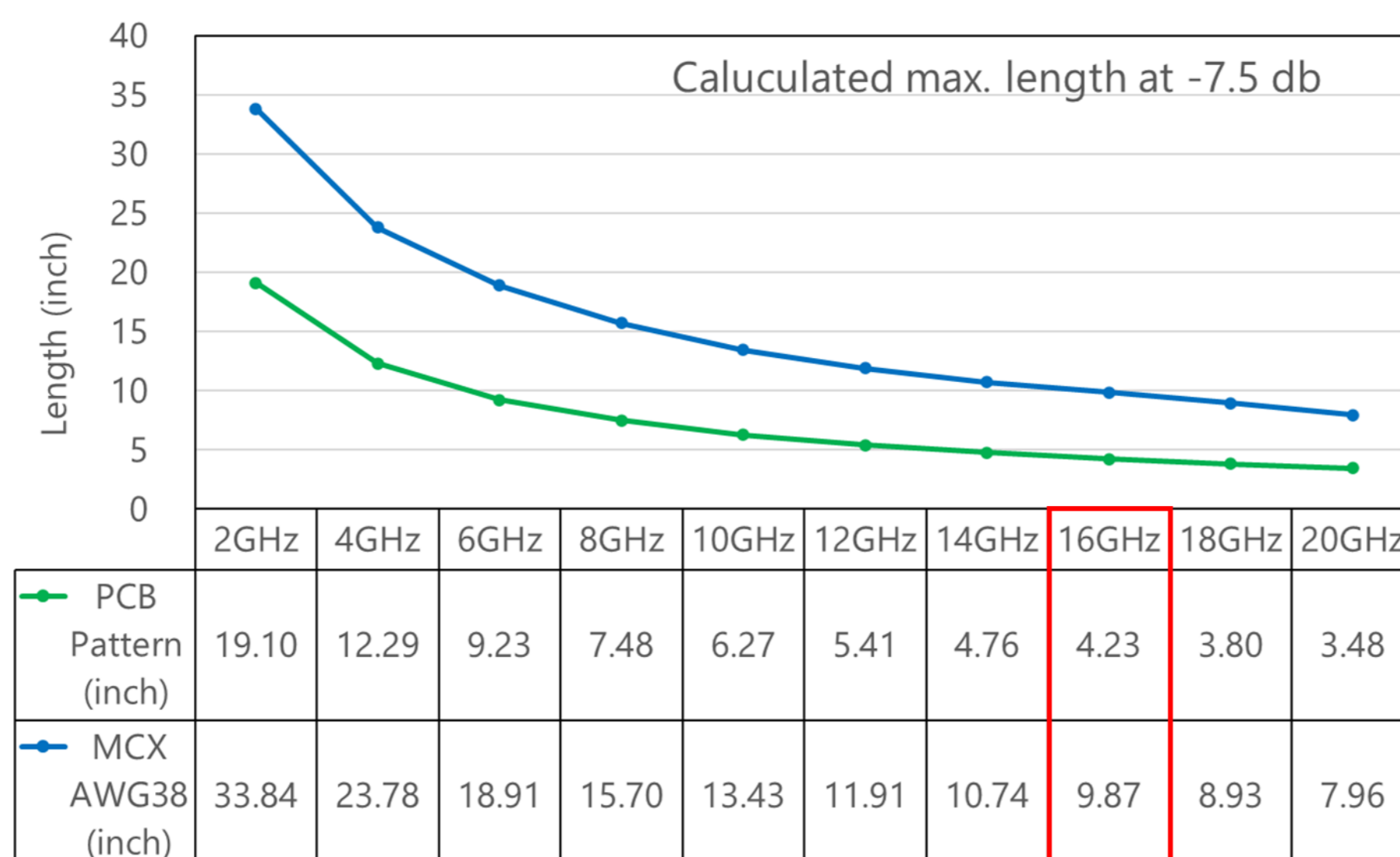
Un-Mating condition

プラグ:
CABLINE®-CAPハーネス

レセプタクル:
CABLINE®-CAのレセプタクル
(PN 20525-#50E-02)



▶ 細線同軸ケーブルを使用したLEAPWIREジャンパーソリューション

ケーブルジャンパーハーネスは基板伝送よりも有利です。低損失PCB(Dk3.7)とCABLINE-CAP®ハーネスの
伝送距離比較です。細線同軸ケーブルは、低損失PCB(Dk3.7)と比較して、16GHz帯で約2.3倍の伝送が可能です。



Component Parts Details

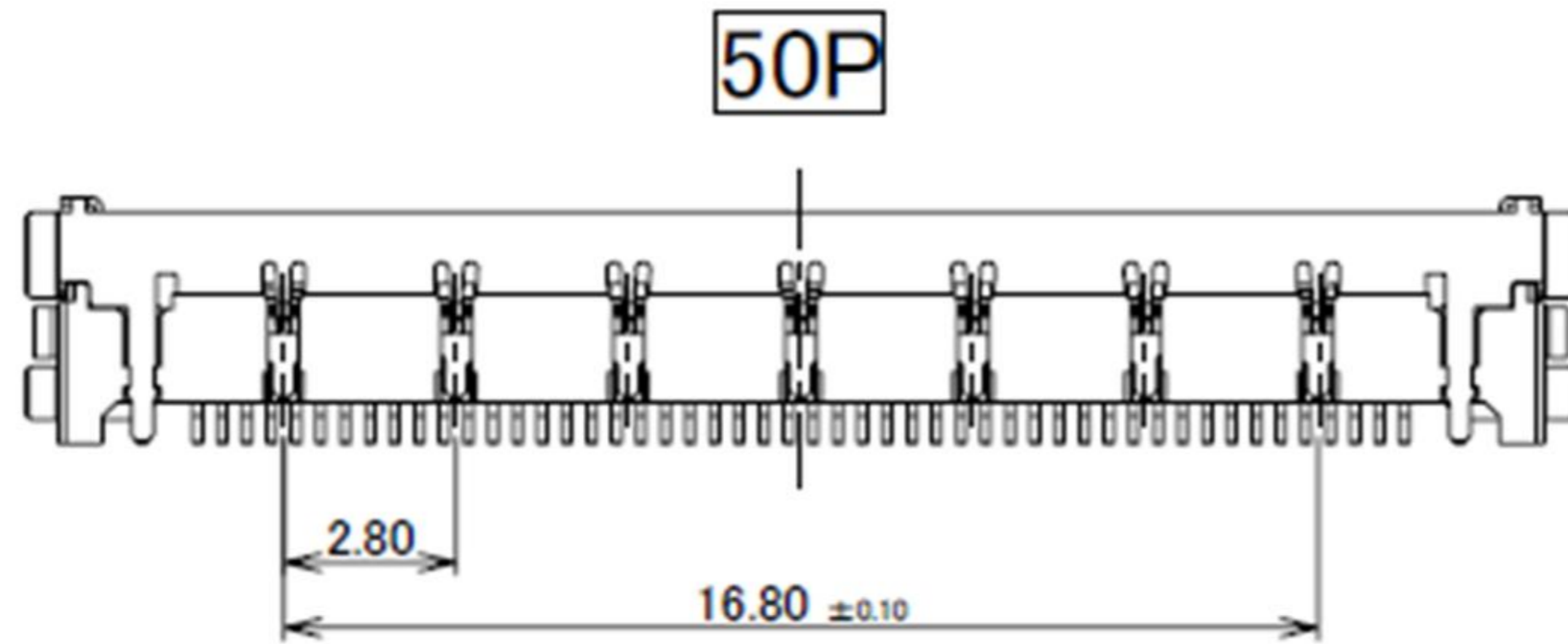
Component Parts

Connector parts	
	
PLUG Harness	RECEPTACLE

Receptacle Assembly

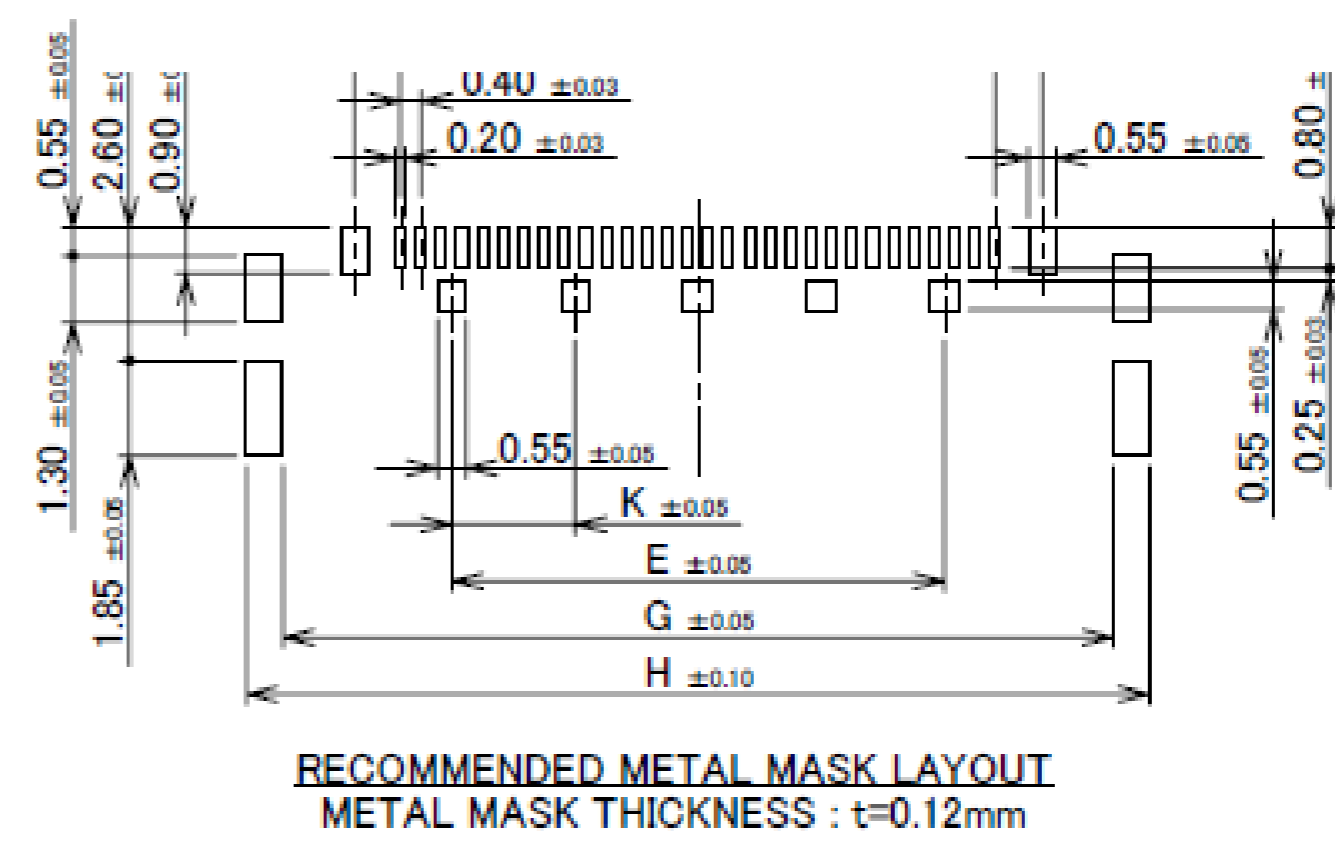
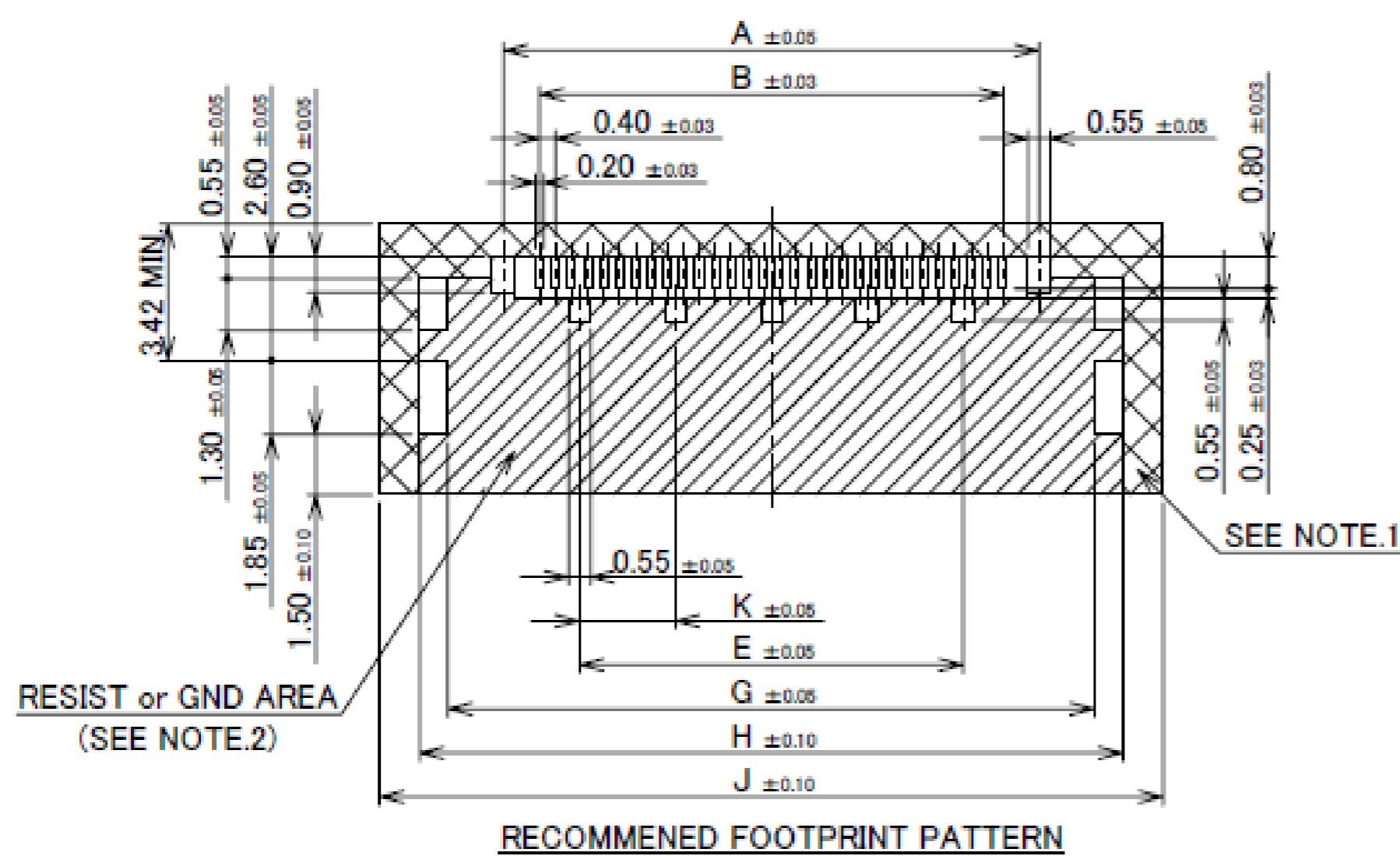
PART NO.
20525-050E-02

BOTTOM VIEW



Rev.27

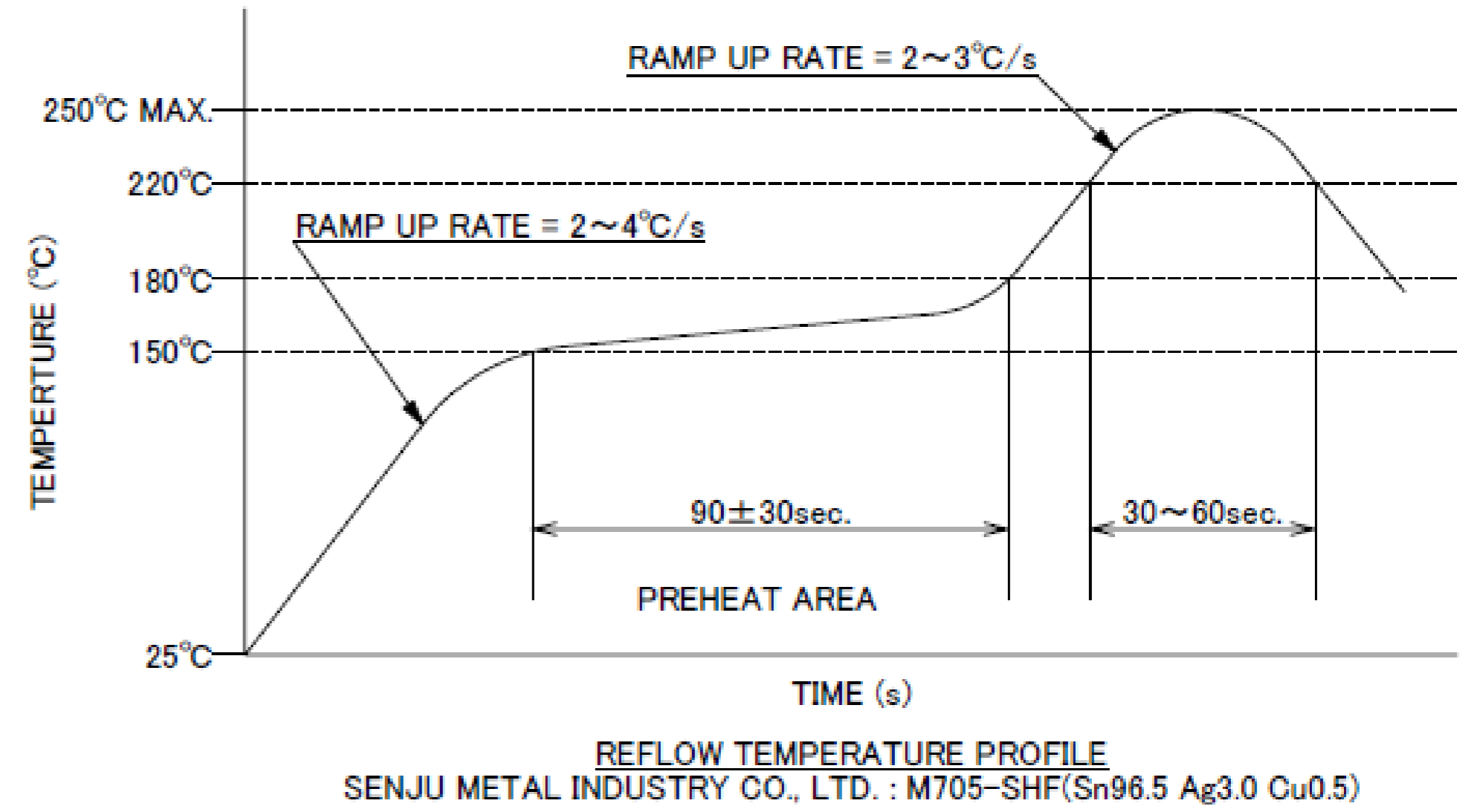
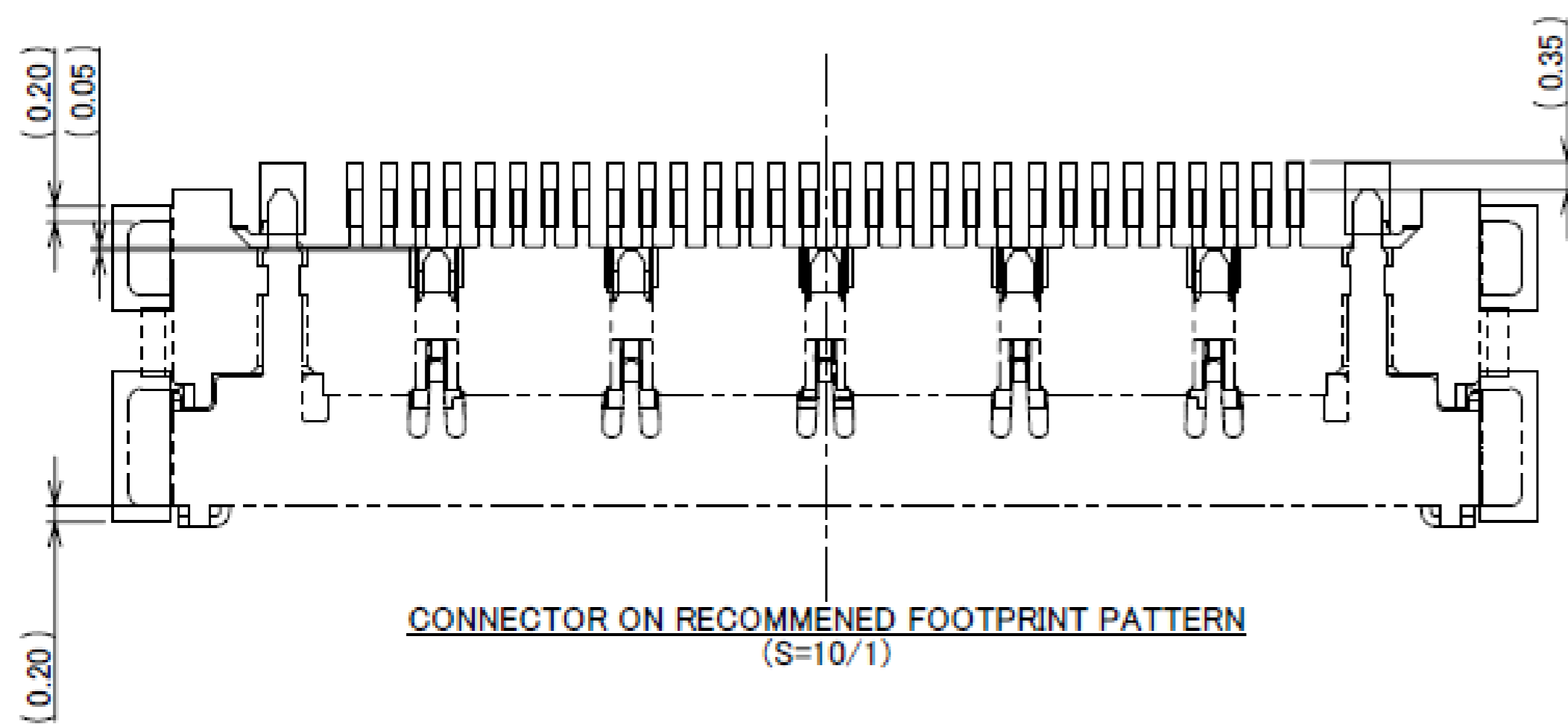
PART NO.	POS.	A	B	E	G	H	J	K
20525-050E-02	50	21.40	19.60	16.80	24.18	25.60	27.60	2.80



- NOTES.
1. IN CASE OF PLUG WITH PULL BAR(20633-##*T-01S), THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.
 2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

Rev.27

Receptacle Assembly



Rev.27

ITEMS	SPECIFICATION
APPLICABLE CABLE	Micro Coaxial: AWG#38 Diff 90ohm
RATING AMPERAGE (FOR CONTACT)	0.4A AC/DC (AWG#38)
RATING VOLTAGE	100V AC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K (-40°C~85°C)
OPERATING HUMIDITY	85°C MAX. (NON-CONDENDING)
CONTACT RESISTANCE	INITIAL: 270mohm MAX.(AWG#38) / AFTER TEST: Δ40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : Δ40mohm MAX.
INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30CYCLES
MATING FORCE (INITIAL / AFTER 30 CYCLES)	50P: 18.9N MAX.
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	50P: 2.5N MIN.
CABLE RETENTION FORCE	50P: 24.5N MIN.
PRODUCT SPECIFICATION	PRS-2832
TEST REPORT	TR-23020
INSTRUCTION MANUAL	HIM-23013

Rev.1

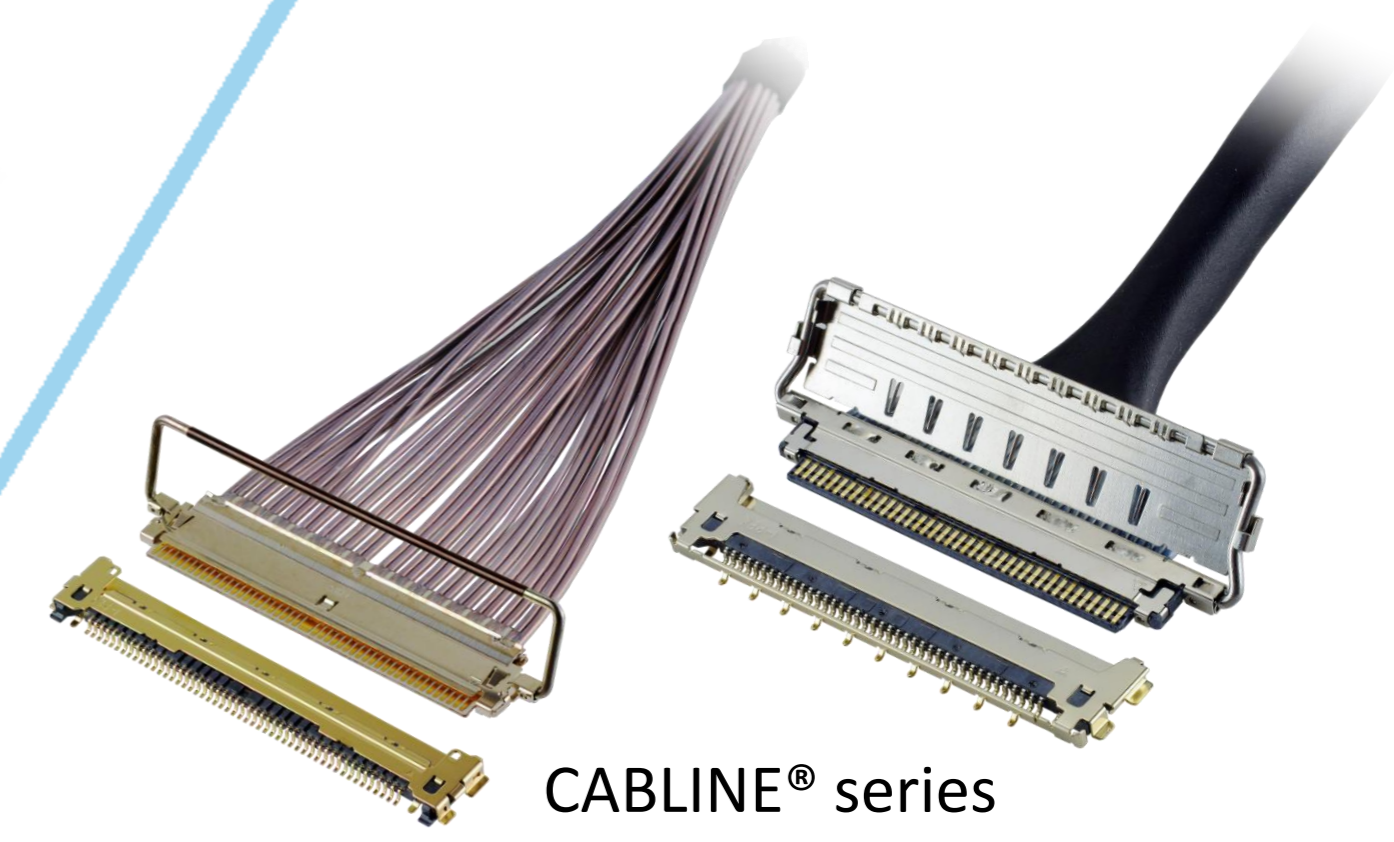
Custom Connectors Available

 RF Connector

MHF® series



CABLINÉ® series
Micro-coaxial/Twinax/
Discrete Wire Connector



Optical Module

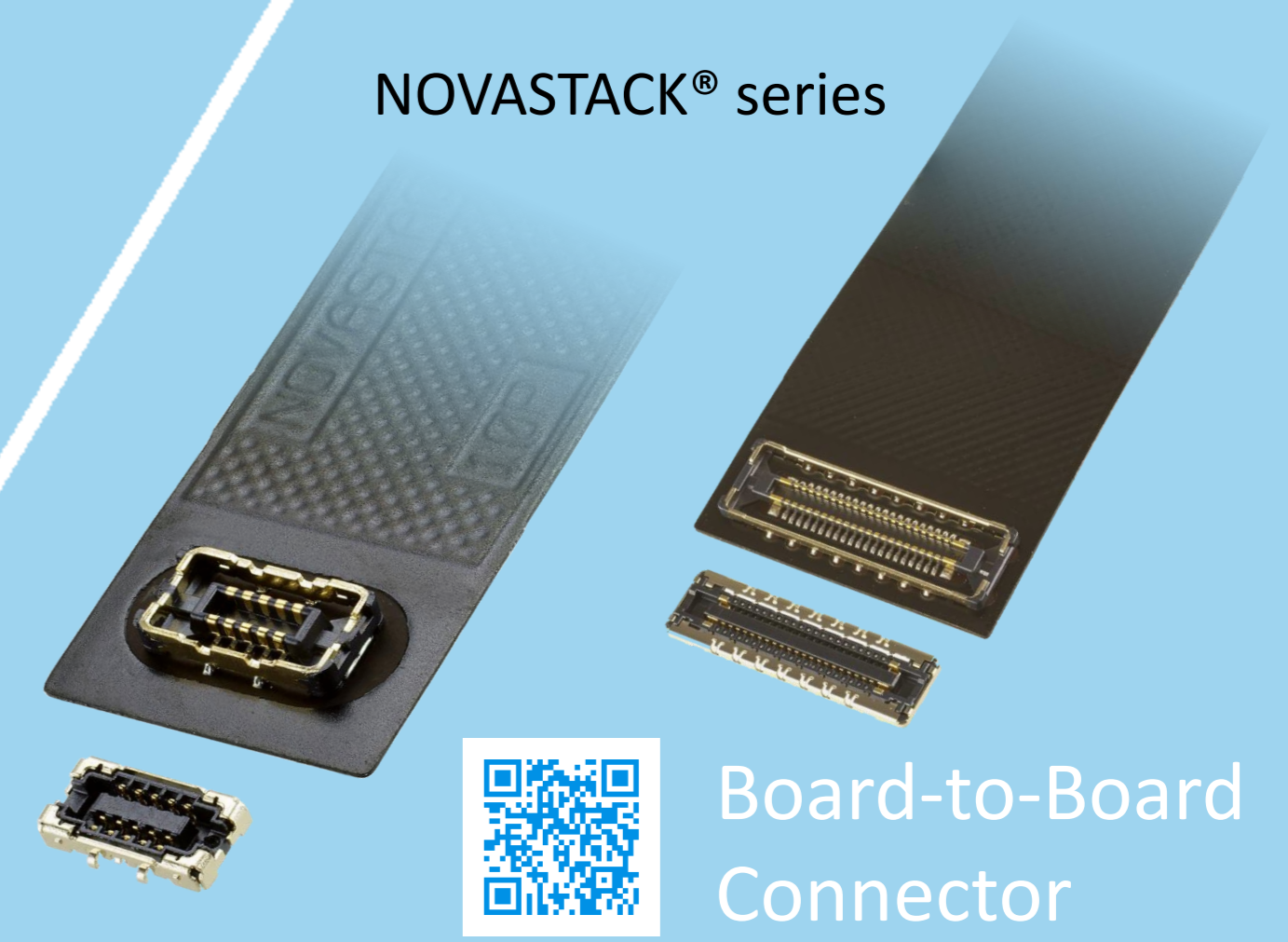
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



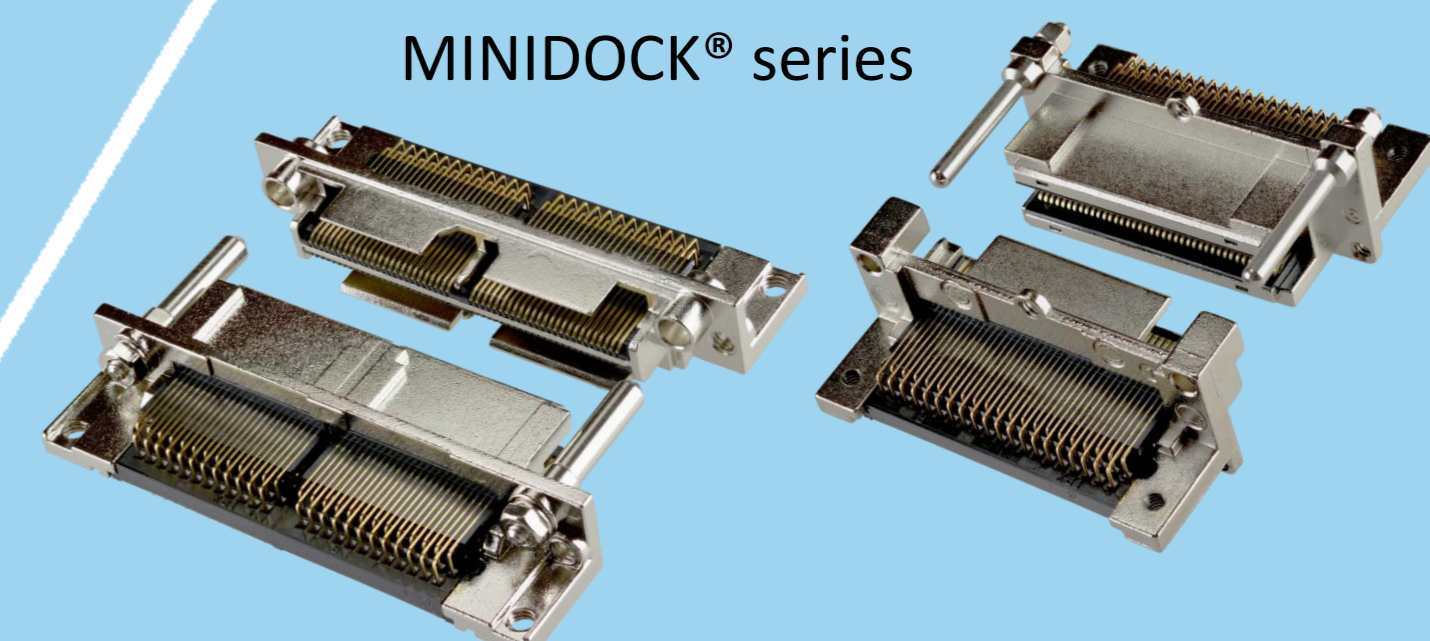
Inquiry



MINIDOCK® series



I/O Connector



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