## FPL II



- ✓ High-data-rate transfer, ideal for eDP HBR 2 (5.4 Gbps) applications.
- ✓ Simultaneous soldering of different size cables for micro-coaxial and discrete wire.
- Click sensation provides audible and tactile check for proper mating.

Pin counts:	
Range	30 – 50
Available	30, 40, 50

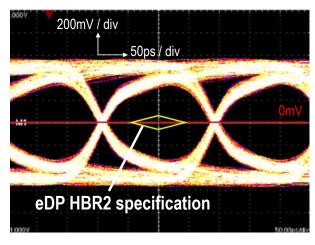
<sup>\*</sup>Please inquire for pin counts not listed or outside of the pin count range.

	,		
Matin	д Туре	Right angle vertical	
Wire Pitch (mm)		0.5	
Board Pitch (mm)		0.5	
Matad	Height	2.2 +/- 0.2	
Mated Size	Width Formula	5.8 + (0.5*?p)	
(mm) Depth		6.1	
Wiping Length (mm)		0.51	
	Micro-coax for Signals	45Ω: #36 or smaller	
Applicable Wire		50Ω: #38 or smaller	
(AWG#)	Twincoax	#40	
(111011)	Discrete	#32 or smaller	
Compatibility		-	
Performance (Reference Only)		eDP HBR 2 (5.4 Gbps)	
		USB 3.1 Gen 1 (5 Gbps)	

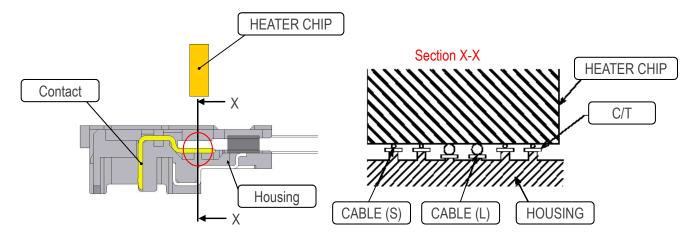
#### High-Data-Rate Transfer, Ideal for eDP HBR 2 (5.4 Gbps) Applications

Eye pattern (Differential) Bit rate: 5.4 Gbps

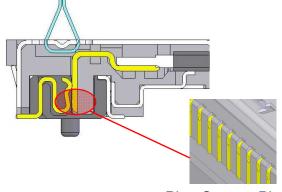
Rise time: 60ps (10-90%) Input voltage: 800mVp-p



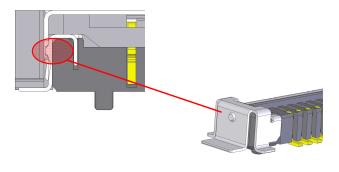
#### Simultaneous Soldering of Different Size Cables for Micro-coaxial and Discrete Wire



#### Click Sensation Provides Audible and Tactile Check for Proper Mating



Plug Contact Pimple

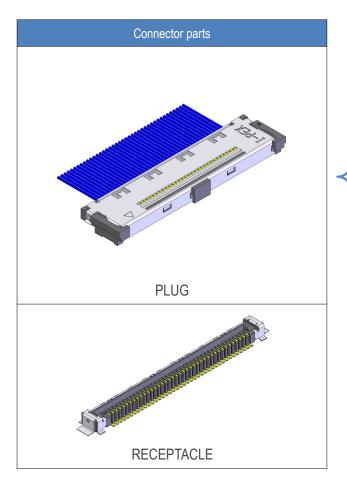


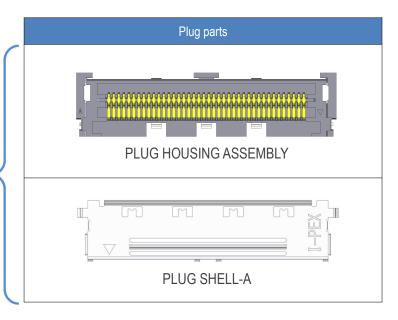
Shell Pimple

<sup>\*</sup>Please contact I-PEX Connectors for more test details.

# $\mathsf{FPL} \, \mathsf{II}^{\mathbb{R}}$ Component Parts Detail

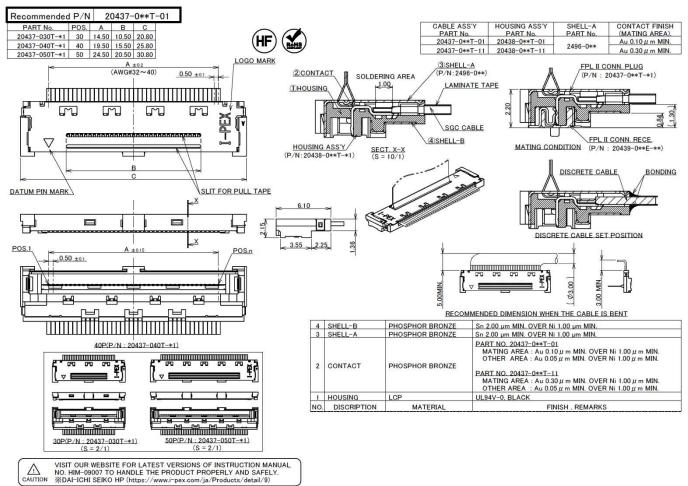
#### **Component Parts:**



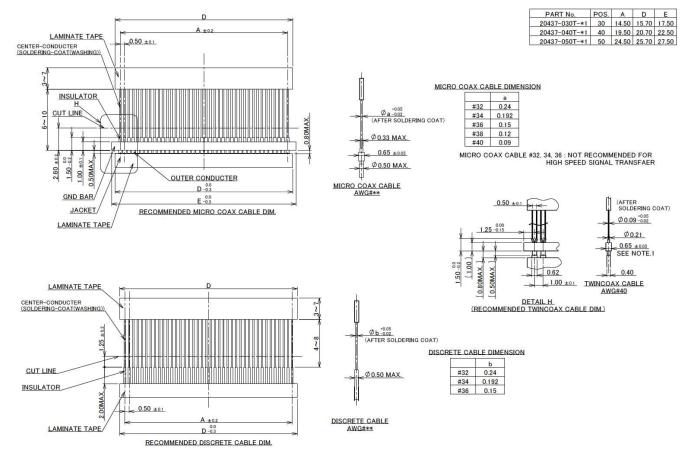


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#### Plug Cable Assembly:



QKE-DFFDE06-02 REV.11



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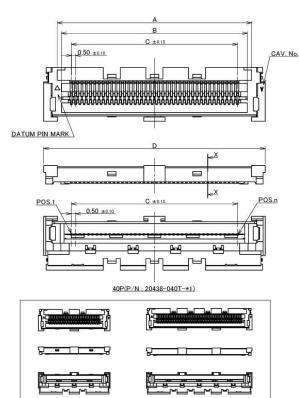
## **Plug Housing Assembly:**

Recommende	2	0438-	-0**T	-01	
PART No.	POS.	Α	В	С	D
20438-030T-*1	30	17.80	16.80	14.50	20.80
20438-040T-*1	40	22.80	21.80	19.50	25.80
20438-050T-*1	50	27.80	26.80	24.50	30.80

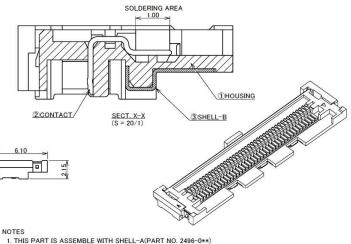
PART NO.	CONTACT FINISH (MATING AREA).
20438-0**T-01	Au 0.10 μ m MIN.
20429-0++T-11	A., 0.20 // m MIN







50P(P/N: 20438-050T-\*1) (S = 2/1)



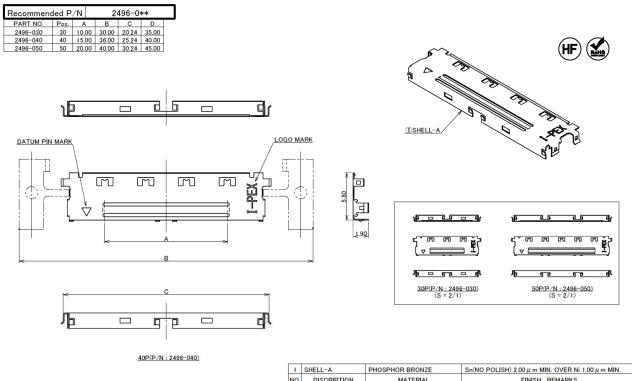
AFTER SOLDERED THE CABLE. AND IT BECOMES PART NO. 20437-0\*\*T-\*1

3	SHELL-B	PHOSPHOR BRONZE	Sn 2.00 µm MIN. OVER Ni 1.00 µm MIN.
2	CONTACT	PHOSPHOR BRONZE	PART NO. 20438-0**Τ-01  MATING AREA: Au 0.10 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.  OTHER AREA: Au 0.05 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.  PART NO. 20438-0**Τ-11  MATING AREA: Au 0.30 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.  OTHER AREA: Au 0.05 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.  OTHER AREA: Au 0.05 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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## Plug Shell-A:

30P(P/N: 20438-030T-\*1) (S = 2/1)



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### **Receptacle Assembly:**

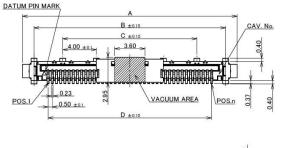
Recommende	d P/N	1 2	0439-	0**E-	-01	1
PART NO.	Pos.	Α	В	С	D	Е
20439-030E-**	30	20.60	17.86	12.00	14.50	16.00
20439-040E-**	40	25.60	22.86	16.00	19.50	21.00
20439-050E-**	50	30.60	27.86	20.00	24.50	26.00

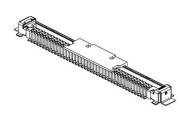


PART NO.	CONTACT FINISH (MATING SIDE)
20439-0**E-0*	Au 0.1 μ m MIN.
20439-0**E-1*	Au 0.3 μ m MIN.

PART NO.	BOSS	VACUUM CLIP	
20439-0**E-*1	WITHOUT	14/2771	
20439-0**E-*2	WITH	WITH	
20439-0**E-*3	WITHOUT	WITHOUT	
20439-0**E-*4	WITH	WITHOUT	

MATING COMBINATION TABLE PLUG PART NO. RECE. PART NO. 20437-030T-\*1 20439-030E-\*\* 20437-040T-\*1 20439-040E-\*\*



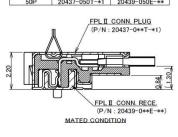


4VACUUM CLIP

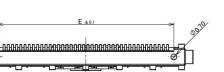
2CONTACT

0.50

SECT. X-X (S=10/1)







NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
1	HOUSING	LCP	UL94V-0, BLACK
2	CONTACT	PHOSPHOR BRONZE	OTHER AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN  PART NO. 20439-0**Ε-1*  MATING AREA: Au 0.30 μ m MIN. OVER Ni 1.00 μ m MIN  OTHER AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN
			PART NO. 20439-0**E-0*  MATING AREA: Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN.
3	SHELL	PHOSPHOR BRONZE	Sn(NO POLISH) 0.50 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
4	VACUUM CLIP	LCP	UL94V-0, BEIGE

1)HOUSING

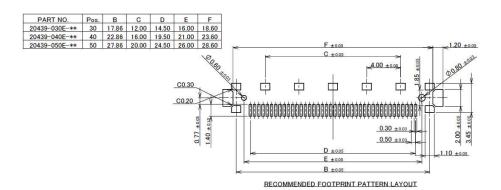
3SHELL

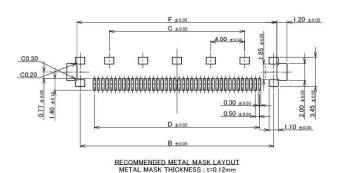


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\*\*XDAFICHI SEIKO HP (https://www.i-pex.com/ja/Products/detail/9)

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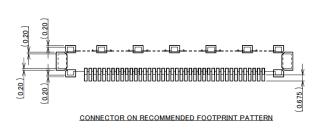


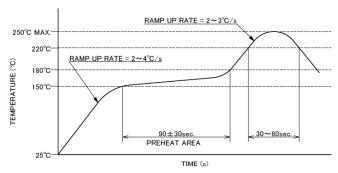


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REFLOW TEMPERATURE PROFILE SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

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ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 40, 38, 36, 34, 32 DISCRETE : AWG# 36, 34, 32 TWINCOAX : AWG# 40
RATING VOLTAGE	100V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC [AWG#40] AVAILABLE TO 50 Pin 0.6A AC/DC [AWG#38] AVAILABLE TO 6 Pin 0.8A AC/DC [AWG#36] AVAILABLE TO 4 Pin 1.0A AC/DC [AWG#34, 32] AVAILABLE TO 7 Pin TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL: 145mohm MAX.(AWG#32) / AFTER TEST:
GROUND SHELL RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: △40mohm MAX.
INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P: 50.0N MAX. / 40P: 60.0N MAX. / 50P: 70.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P: 5.0N MIN. / 40P: 6.0N MIN. / 50P: 7.0N MIN.
CABLE RETENTION FORCE	30.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1383
TEST REPORT	TR-07048
PACKING STANDARD	PLUG HOUSING ASS'Y: 300-584 / PLUG SHELL-A: 300-585
INSTRUCTION MANUAL	HIM-09007
ASSEMBLY MANUAL	ASM-07005

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