Micro RF Coaxial Connector

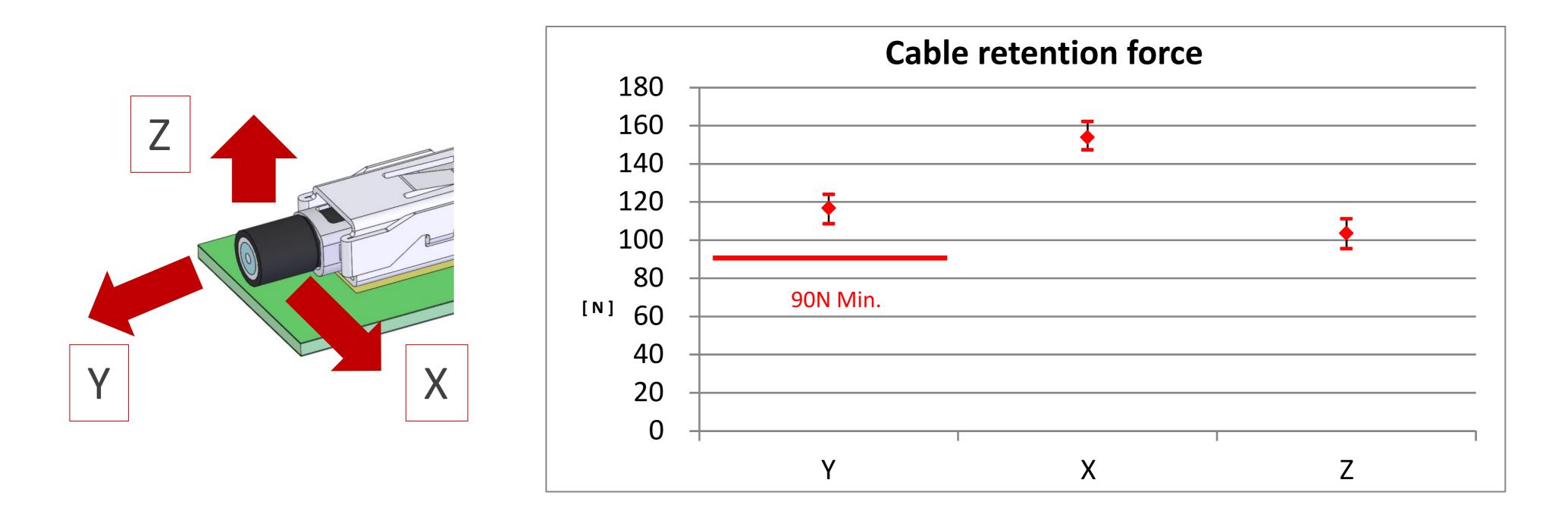
MHF[®] TI

Small, robust RF connector for automotive telematics antenna, and camera sensors

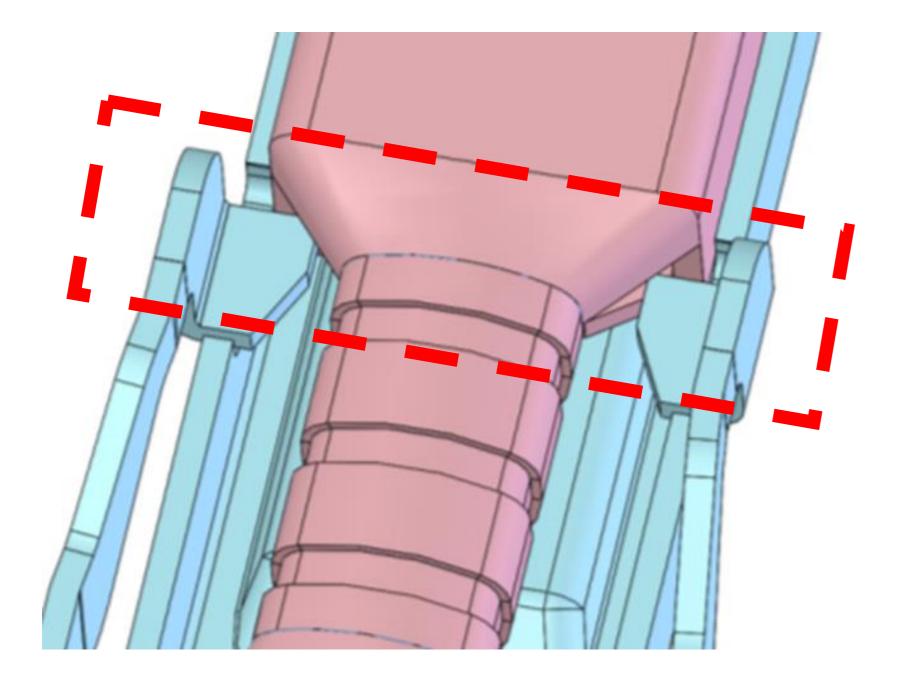
Product Specifications:				Applicable Cable Size:	
	Mated Height (mm max.)		3.65	O.D. 2.8 mm / AWG 26	
	Rece. SMT Size (mm)		9.4 x 5.18	O.D. 3.0 mm / AWG 25	
	Applicable Frequency		DC ~ 6 GHz		
	Characteristic Impedance		50 ohm		
		DC ~ 6 GHz	1.5 max.	Applicable Standards (Reference Only):	
	VSWR	6 ~ 9 GHz	-	5G sub-6, Wi-Fi 6, LTE/LTE-Advanced,	
	(L=100 mm)	9 ~ 12 GHz	-	LPWA, Bluetooth, GPS, C-V2X, DSRC	
		12 ~ 15 GHz	-		



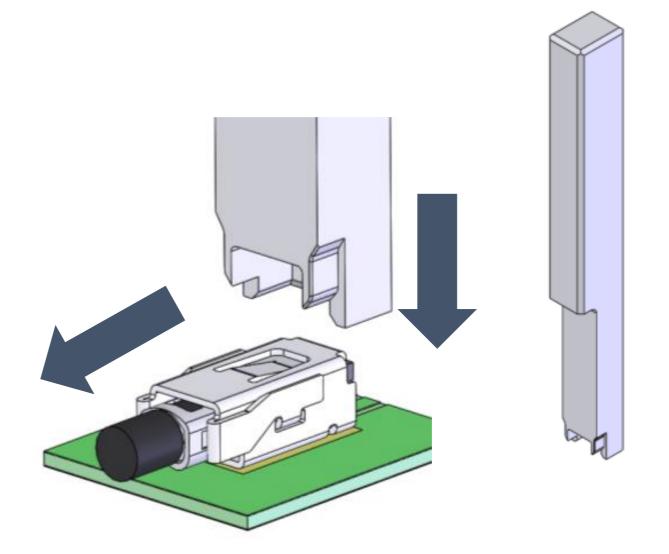
High retention force (90N minimum)



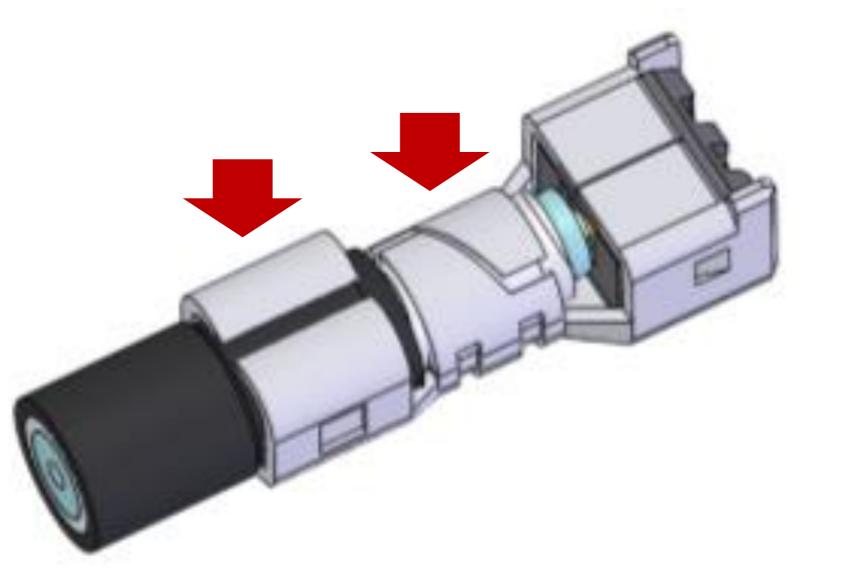
Permanent mechanical lock with tactile indication of secure contact







2.4-3.0 mm O.D. wire available with robust crimping structure



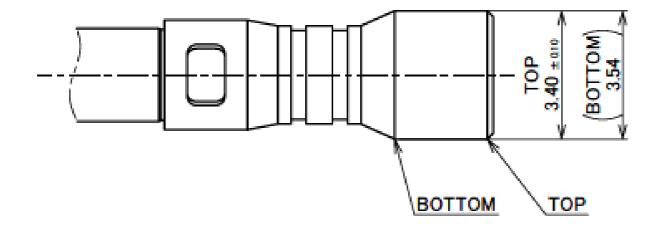


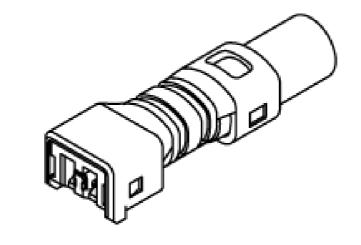
Component Parts Details

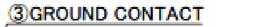
<u>MHF®-TI Plug</u>

Recommended P/	20859-001F	≀-01	
PART NO.	AF	PLICABLE CABLE	
20859-001R-01		Φ2.80~Φ3.00	

OFFERED AS HARNESS ONLY.

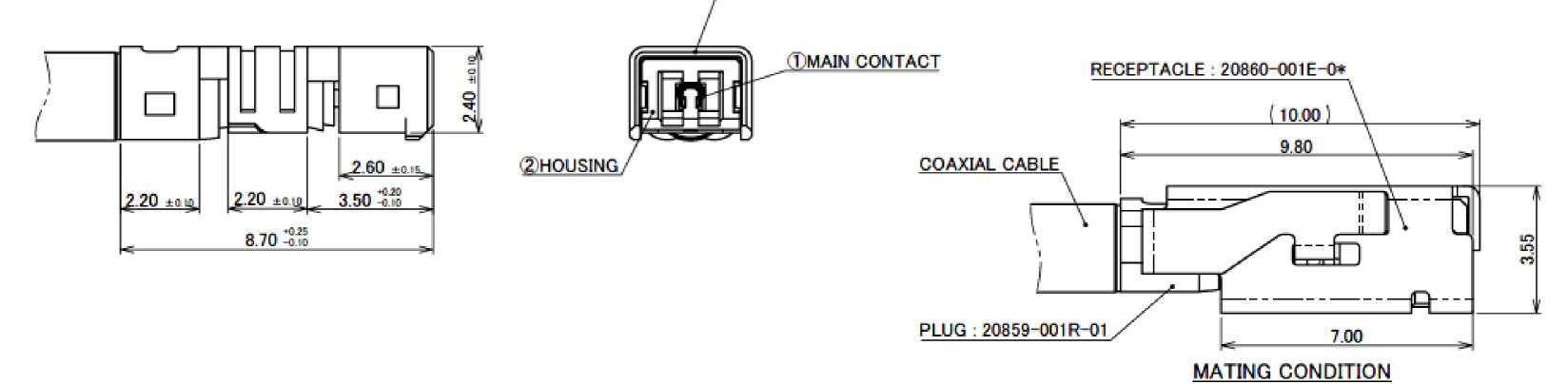








- NOTES. 1. APPLICABLE CONNECTOR MHF-TI RECEPTACLE(P/N: 20860-001E-01)
- 2. APPLICABLE CABLE
- AWG#25~26, Φ2.80~Φ3.00mm 3. APPLICABLE FREQUENCY RANGE: DC TO 6 GHz
- 4. RoHS COMPLIANT THIS PRODUCT IS COMPLIANT WITH ROHS DIRECTIVE. 5. HALOGEN FREE
 - THIS PRODUCT IS CONFORMED TO IEC 61249-2-21.



3	GROUND CONTACT	PHOSPHOR BRONZE	Sn PLATING
2	HOUSING	LCP	UL94V-0, BLACK
1	MAIN CONTACT	BRASS	Au PLATING
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

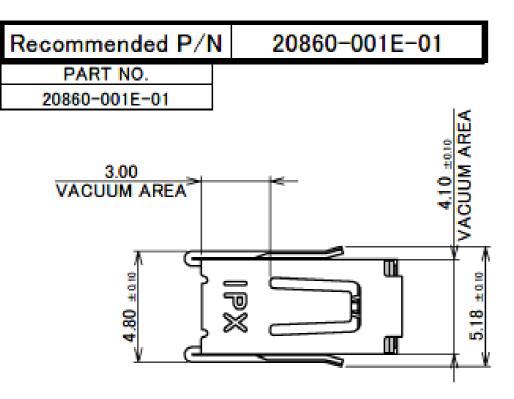
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

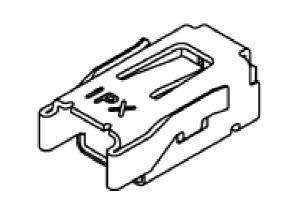
Rev.5

<u>MHF®-TI Plug</u>

ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20860-001E-0*
RATING AMPERAGE	100mA AC/DC
RATING FREQUENCY	DC~6 GHz
OPERATING TEMPERATURE	233~378K (−40°C~+105°C)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
VSWR	1.5 MAX. AT DC~6 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 30 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 15 mohm MAX. / AFTER TEST: 25 mohm MAX.
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE
DURABILITY	30 CYCLES
MATING FORCE	45N MAX.,
MATING LOCK STRENGTH	110 N MIN
CRIMP STRENGTH	90 N MIN.
PRODUCT SPECIFICATION	PRS-2573
TEST REPORT	TR-20007
INSTRUCTION MANUAL	HIM-20001
APPEARANCE CRITERIA No.	QLS-A***

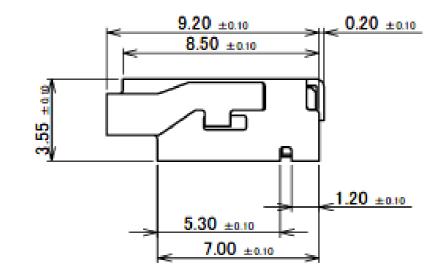
MHF®-TI Receptacle





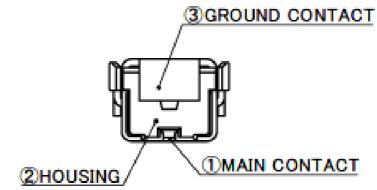


NOTES. 1. APPLICABLE CONNECTOR MHF-TI PLUG(P/N: 20859-001R-0*) 2. APPLICABLE FREQUENCY RANGE: DC TO 6 GHz 3. COPLANARITY : 0.1MAX. 4. RoHS COMPLIANT THIS PRODUCT IS COMPLIANT WITH RoHS DIRECTIVE.

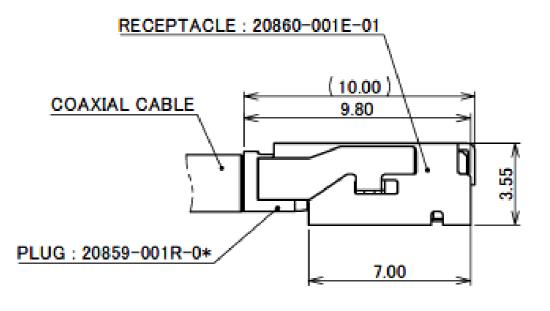


2.40

0.50



5. HALOGEN FREE THIS PRODUCT IS CONFORMED TO IEC 61249-2-21.



MATING CONDITION

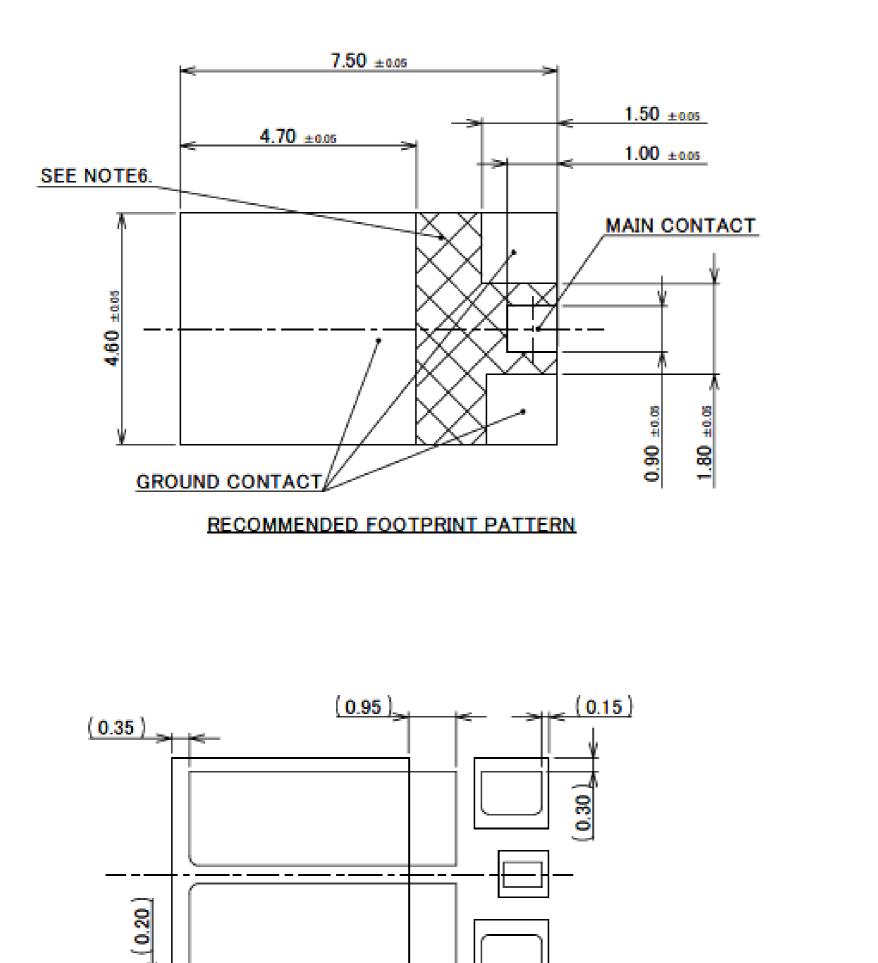
	3	GROUND CONTACT	PHOSPHOR BRONZE	Sn PLATING
1	2	HOUSING	LCP	UL94V-0, BLACK
	1	MAIN CONTACT	CORSON ALLOY	Au PLATING
N	0.	DESCRIPTION	MATERIAL	FINISH , REMARKS

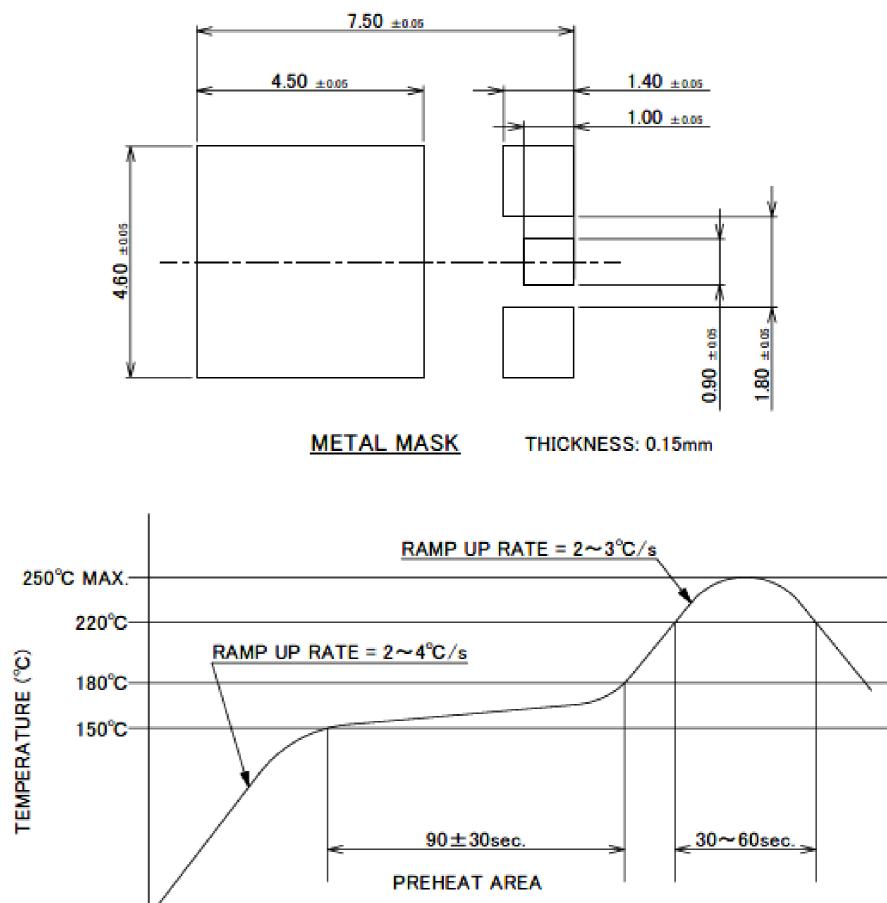


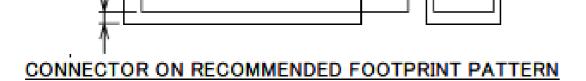
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Rev.7

MHF®-TI Receptacle









TIME (s)

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

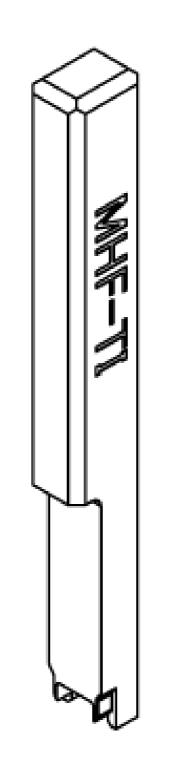
NOTES. 6. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20859-001R-01
RATING AMPERAGE	100mA AC/DC
RATING FREQUENCY	DC~6 GHz
OPERATING TEMPERATURE	233~378K (-40°C~+105°C)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
VSWR	1.5 MAX. AT DC~6 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 30 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 15 mohm MAX. / AFTER TEST: 25 mohm MAX.
INSULATION RESISTANCE	INITIAL : 500 Mohm MIN. / AFTER TEST : 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE
DURABILITY	30 CYCLES
MATING FORCE	45 N MAX.
MATING LOCK STRENGTH	110 N MIN
ODIND CTDENCTU	

Rev.7

CRIMP STRENGTH	90 N MIN.
PRODUCT SPECIFICATION	PRS-2573
TEST REPORT	TR-20007
PACKING STANDARD	PST-18032
INSTRUCTION MANUAL	HIM-20001
APPEARANCE CRITERIA No.	QLS-A***

Accessories for MHF®-TI Plug & Receptacle



MHF-TI_UN-MATING_JIG PART_NO. 91097-0001

Rev.7

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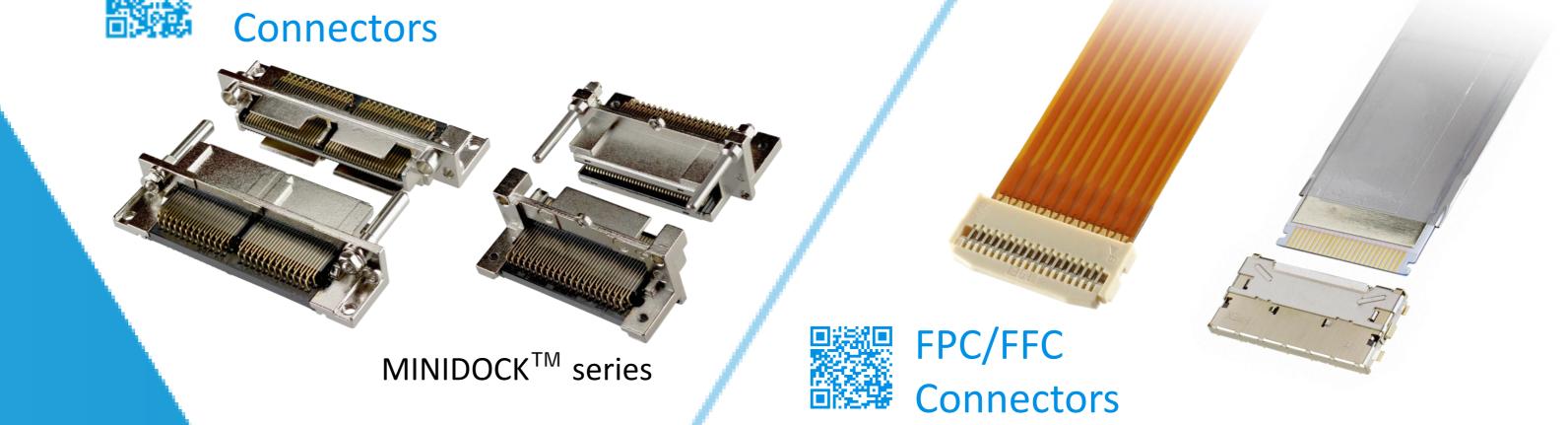
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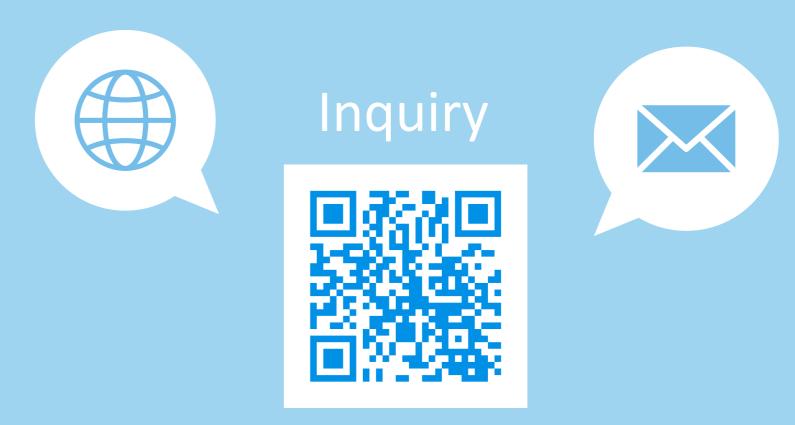


I/O

MINIFLEX[®] series

EVAFLEX[®] series





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