

10029449-002TLF - HDMI :  
HDMI Receptacle, Type A,  
Right Angle, Partial SMT  
(Through Hole for Shell Peg),  
with flange, Tray package



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## Specifications

### General

Gender	Receptacle
Hold Down Style	Through Hole
Number of contacts	19
Orientation	Horizontal
Packaging	Tray
Style	A

### Dimensional

Thickness (Board - recommended)	1.6 mm
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### Electrical

Current rating (Contact)	0.5A min.
Withstanding Voltage	500V AC
Resistance (Contact)	30 ohm max.
Resistance (Insulation)	100 M-ohm
Resistance (Shell)	50 ohm max.
Voltage rating	40V AC max.

### Mechanical

Durability (Mating cycles)	10,000
Withdrawal Force	9.8N min. 39.1 max.
Mating force	44.1N max.

### Mounting

Mounting style	Surface Mount
Mounting flange	Yes

### Physical

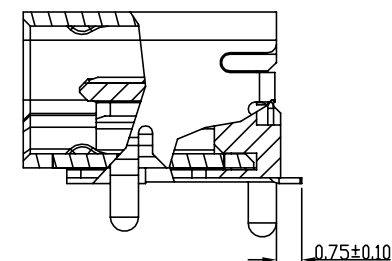
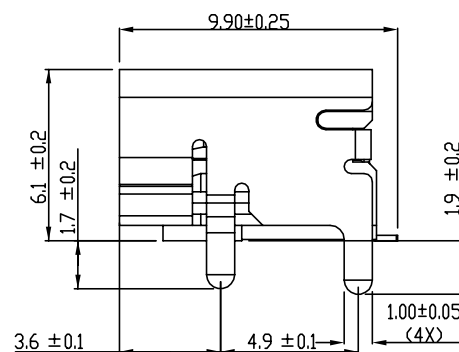
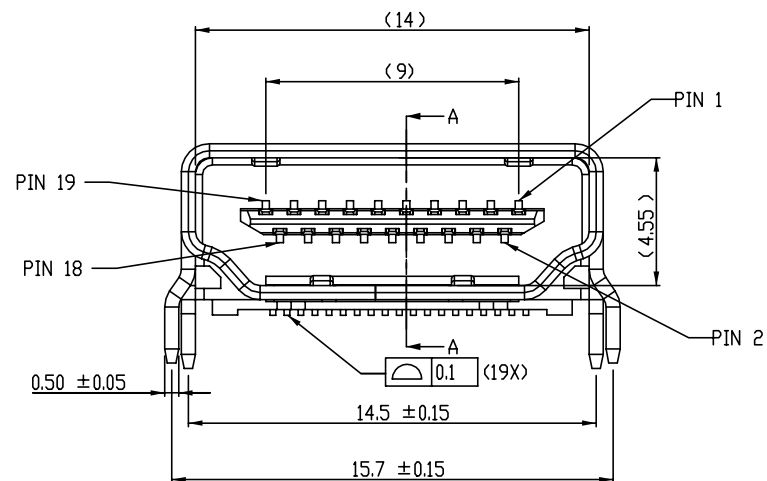
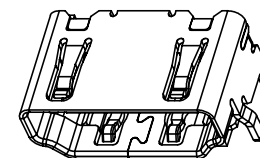
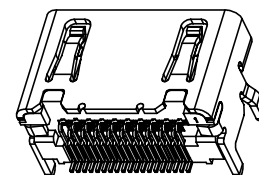
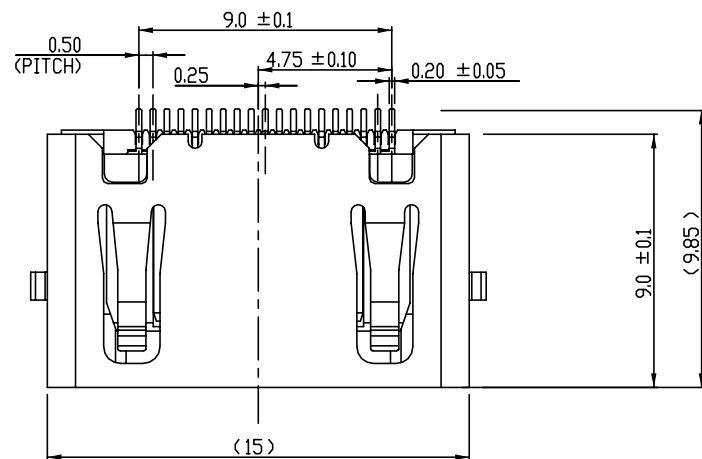
Color (Housing)	Black
Material (Contact)	Copper Alloy
Material (Housing)	High - Temp Resin
Plating (Contact area)	30u" Au
Plating (Shield)	Nickel
Plating (Solder tail)	Pure Sn
Material (Metal Shell)	Copper Alloy

Temperature (Operating - range)	-55°C to +85°C
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Other Features

Most Popular Configuration	Not Applicable
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PRODUCT NO.  
10029449-X01XLF

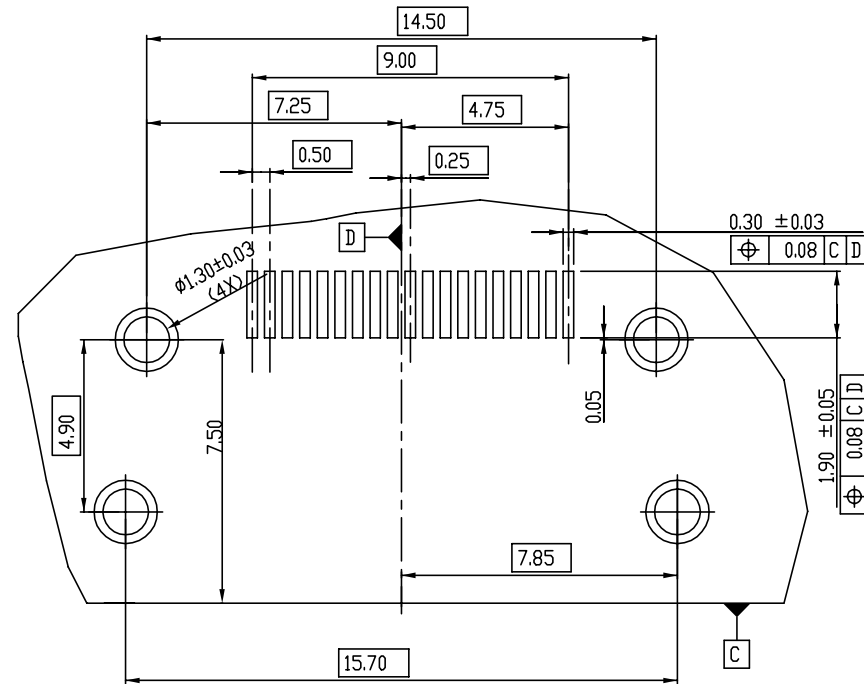


SECTION A-A

mat'l. code				surface		tolerance		projection		product family	
				ISO1302		ISO1101 ISO406				HDMI	
ltr ecn nodr		date		tolerances unless otherwise specified				title			
M	N09-0307	SH	10/21/09	angle of insertion	.X±0.3				HDMI TYPE A RECEPTACLE		
N	N10-0033	SH	02/01/10		.XX±0.15						
P	N10-0201	KW	2011-02-14		.XXX±0.05						
				0°±2'				scale 4.0			
R	N12-0001	SH	2012-02-23	dr	LEIF SHEN		10/15/04			dwg no	
S	N12-0003	AZH	2012-06-13	enr	LEIF SHEN		10/15/04			sheet 1 of 5	
				chr	PAUL WANG		10/15/04			10029449	
				app	JOSEPH HSIA		10/15/04			A4	
sheet		revisions		s		s		type		Product Customer Drawing	
index		sheet		1		2		3		4	
						3					
						4					
						5					



PRODUCT NO.	CONTACT AREA PLATING	SHIELD FIGURE	PACKING
10029449-001TLF	30u" GXT MINIMUM	WITHOUT FLANGE	TRAY
10029449-001RLF	30u" GXT MINIMUM	WITHOUT FLANGE	TAPE AND REEL
10029449-101TLF	GOLD FLASH 3u" MIN	WITHOUT FLANGE	TRAY
10029449-101RLF	GOLD FLASH 3u" MIN	WITHOUT FLANGE	TAPE AND REEL
10029449-002TLF	30u" GXT MINIMUM	WITH FLANGE	TRAY
10029449-002RLF	30u" GXT MINIMUM	WITH FLANGE	TAPE AND REEL
10029449-002FLF	GOLD FLASH 3u" MIN	WITH FLANGE	TAPE AND REEL



RECOMMENDED PCB PATTERN LAYOUT  
(t=1.6mm)

#### NOTES:

##### 1. MATERIAL

- 1-1 HOUSING: GLASS FIBER HIGH-TEMP. RESIN.(UL94V-0)
- 1-2 CONTACT: BRASS
- 1-3 SHELL : STEEL

##### 2. FINISH

- 2-1 CONTACT : Ni UNDER PLATED ALL OVER 50u" MIN  
CONTACT AREA SEE TABLE
- 2-2 SHELL : Ni 100u" MIN.

##### 3. PACKAGING:

PACKAGING SPECIFICATION GS-14-939.

##### 4. PRODUCT SPEC:

PRODUCT SPECIFICATION GS-12-309.

##### 5. RoHS STANDARD SPECIFICATION ACCORDING TO FCI GS-22-008.

##### 6. PARTS MEET REFLOW APPLICATION PEAK TEM. 260°C, 10 SECONDS MAX.

mat'l. code				surface	tolerance	projection	product family		
ltr ecn nodr date				ISO1302	ISO1101 ISO406	MM	HDMI		
M	N09-0307	SH	10/21/09	angle of projection	.X±0.3	scale 4.0	HDMI TYPE A RECEPTACLE		
N	N10-0033	SH	02/01/10		.XX±0.15				
P	N10-0201	KW	2011-02-14		.XXX±0.05				
R	N12-0001	SH	2012-03-09						
S	N12-0003	AZH	2012-06-13	dr	LEIF SHEN	10/15/04	dwg no		sheet 3 of 5
				enr	LEIF SHEN	10/15/04	10029449		A4
				chr	PAUL WANG	10/15/04	type Product Customer Drawing		B
				app	JOSEPH HSIA	10/15/04			
sheet	revision								
index	sheet								

PRODUCT NO.	CONTACT AREA PLATING	SHIELD FIGURE	DIM "A"	PACKING
10029449-111RLF	GOLD FLASH 3u" MIN	WITHOUT FLANGE	2.02±0.20	TAPE AND REEL
10029449-113RLF	GOLD FLASH 3u" MIN	WITHOUT FLANGE	0.90±0.20	TAPE AND REEL

## NOTE:

## 1.MATERIAL:

HOUSING: HIGH TEMP.THERMOPLASTIC, UL 94V-0

COLOR: BLACK.

CONTACT: PHOSPHOR BRONZE

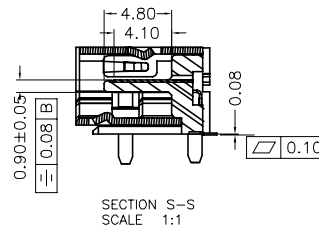
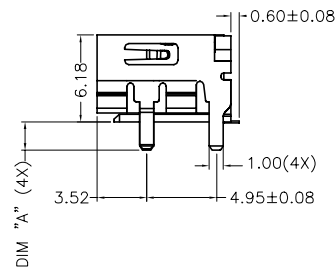
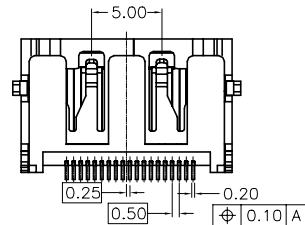
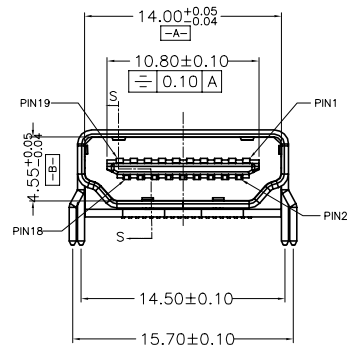
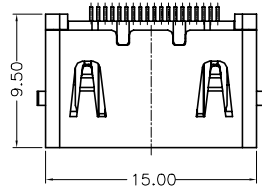
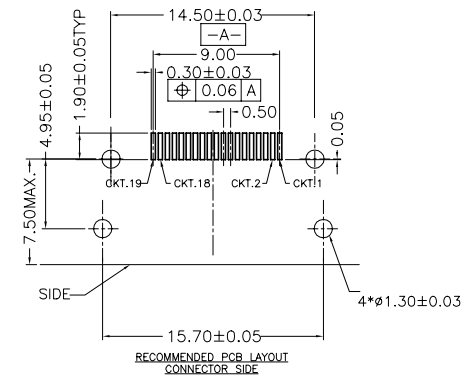
SHIELD: BRASS

## 2.FINISH:

SEE NOTES.

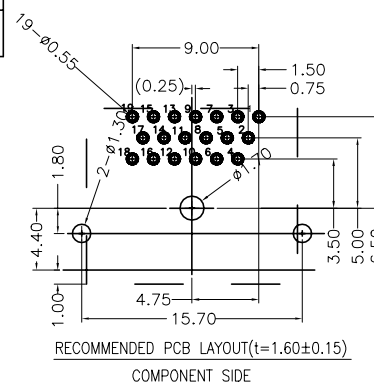
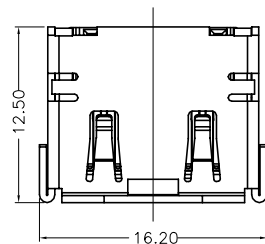
3.TERMINAL RETENTION FORCE TO BE 0.3kgf MIN.

4.TERMINAL CUT-OFF BURR TO BE 0.05MAX.

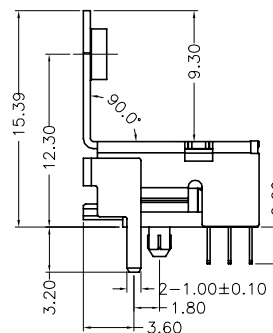
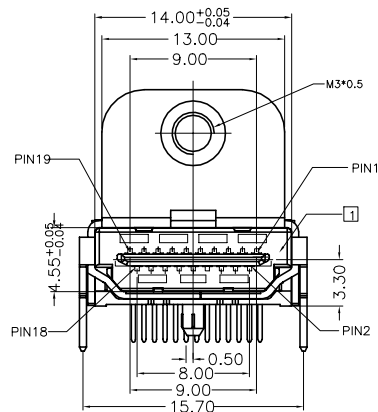
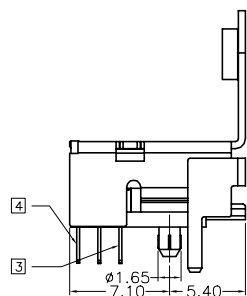
SECTION S-S  
SCALE 1:1

mat'l. code				surface		tolerance		projection		product family			
				ISO1302 ✓		ISO1101 ISO406				HDMI			
ltr	ecn	nodr	date	tolerances unless otherwise specified				title					
M	N09-0307	SH	10/21/09	angle line 0'±2'	.X±0.3			HDMI TYPE A RECEPTACLE					
N	N10-0033	SH	02/01/10		.XX±0.15								
P	N10-0201	KW	2011-02-14		.XXX±0.05								
R	N12-0001	SH	2012-03-09	dr	LEIF SHEN	10/15/04		dwg no		sheet 4 of 5		size	
S	N12-0003	AZH	2012-06-13	enr	LEIF SHEN	10/15/04		10029449		A4			
				chr	PAUL WANG	10/15/04							
				app	JOSEPH HSIA	10/15/04			type		Product Customer Drawing		
sheet		revision											
index		sheet											

PRODUCT NO.	CONTACT AREA PLATING	SHIELD FIGURE	PACKING
10029449-112TLF	GOLD FLASH 3u" MIN	WITH FLANGE	TRAY



RECOMMENDED PCB LAYOUT(t=1.60±0.15)  
COMPONENT SIDE

**NOTE:****1.MECHANICAL CHARACTERISTICS**

INSERTION FORCE: 44.1N MAX

WITHDRAWAL FORCE: 9.8N MIN, 39.2N MAX

MATING CYCLE:10000 CYCLES

CONTACT PULL OUT FORCE: 1.96N/PIN MIN

**2.ELECTRICAL CHARACTERISTICS**

RATING CURRENT: 0.5A

RATING VOLTAGE: 40V

CONTACT RESISTANCE: 10 MILLOHMS OHMS MAX  
(EXCLUDING CONDUCTOR RESISTANCE)

INSULATION RESISTANCE:

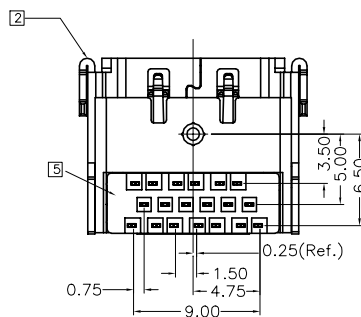
a, UNMATED: 100M OHMS MIN AT 500 VDC



b, MATED: 10M OHMS MIN AT 150 VDC

DIELECTRIC WITHSTANDING VOLTAGE: 300V AC/1MINUTE

OPERATING TEMPERATURE: -20°C--+85°C

STORAGE TEMPERATURE: -20°C--+65°C



mat'l. code				surface ISO1302 ✓		tolerance ISO1101 ISO406		projection 		product family HDMI																	
l		tr		ec		n		odr		date		tolerances unless otherwise specified				title											
M		N09-0307		SH		10/21/09		<div>angle linear 0°±2'</div>		.0±0.3		<div>MM</div>		HDMI TYPE A RECEPTACLE													
N		N10-0033		SH		02/01/10				.00±0.15																	
P		N10-0201		KW		2011-02-14				.000±0.05																	
R		N12-0001		SH		2012-03-09		dr		LEIF SHEN		10/15/04								FCI 		dwg no		sheet 5 of 5		size	
S		N12-0003		A.ZH		2012-06-13		enr		LEIF SHEN		10/15/04										10029449		A4			
								chr		PAUL WANG		10/15/04															
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sheet		revision																									
index		sheet																									