72

DM

B = opposite side

Connector Part Number (Details)

HF507S

Series No.

(41 and 51)

Design No.

YFC

Series No.

Design No.

No. of Contacts

Series HF507S Non-ZIF 90° Socket Direct Mating Type



Specifications

Insulation Resistance: 100M Ω min. Contact Resistance: 100m Ω max.

125V ACrms for 1 minut Withstanding Voltage:

Voltage Rating: 50V ACrms **Current Rating:** 0.3A

Operating Temp. Range: -20°C to +85°C Inserertion / Extraction: 30 times max.



Materials and Finish

Housing: LCP (GF), black Lock Hold: SUS t = 0.2mm

Contacts and Terminal: Phosphor Bronze, (t = 0.15mm) Ni-Au plating

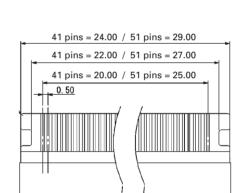
Features

- Suitable for LVDS, HDMI, DVI, PCI express and S-ATA data transmission
- One push lock funktion for FFC/FPC insertion integrated one push button to extract FFC
- Realization of high speed data transmission at Gbps level
- \blacksquare 100 Ω Differential impedance
- High EMI protection due to shielding
- Tape and Reel (1,200 per reel)



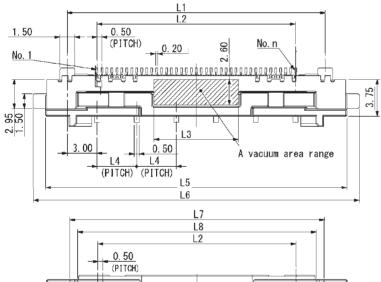
Outline Dimensions FFC

Total Length in mm

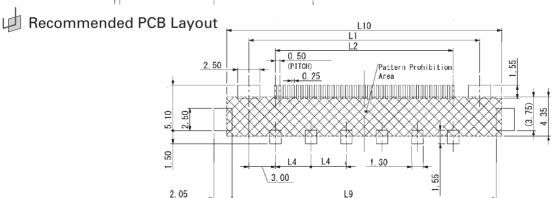


FFC Mating Direction, A = same side

Outline Dimensions for 90° Socket







Part Number	Pin Count	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
HF507S-41-72	41	26.00	20.00	11.70	4.10	30.35	32.85	30.67	24.06	29.75	30.95
HF507S-51-72	51	31.00	25.00	11.70	5.10	35.35	37.85	25.67	29.06	34.75	35.95

Series YFT Shielded High Speed FFC (0.5mm Pitch) for HF507S



Specifications

Insulation Resistance: 100M Ω min. at 500V DC or higher

Contact Resistance: $1.7\Omega/m$

250V AC for 1 minute Withstanding Voltage:

Voltage Rating: 30V AC DC **Current Rating:** 0.2A or less -40°C to +80°C Operating Temp. Range: Characteristic Impedance: $100\pm10\Omega$ 10 ps/m or less Intra / Inter Skew:

Attenuation: 19db/m at 5GHz (reference only)

Bending at 180°: 20 times or more

Materials and Finish

Housing: LCP (GF), black Lock Hold: SUS t = 0.2mm

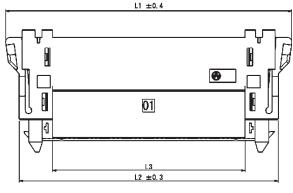
Contacts: Phosphor Bronze, (t = 0.15mm) Ni-Au plating Terminal: Phosphor Bronze, (t = 0.15mm) Ni-Au plating

Features

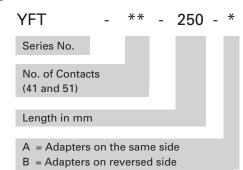
- High speed transmission 3Gbps
- \blacksquare Differential impedance 100 Ω
- One shielding
- UL compliant



Outline Dimensions

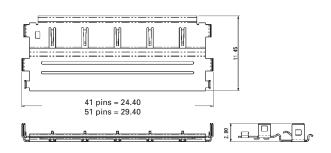




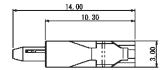




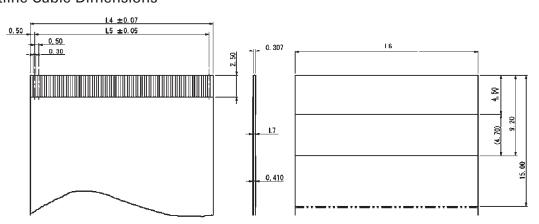
Outline Shielding Dimensions







Outline Cable Dimensions



Part Number	Pin Count	L1	L2	L3	L4	L5	L6
YFT-41-***-*	41	32.85	29.75	22.10	20.00	21.00	19.75
YFT-51-***-*	51	37.85	34.75	27.10	25.00	26.00	24.75

Series HF507S Non-ZIF 90° Socket for High Speed Applications



Specifications

Insulation Resistance: 100M Ω min. Contact Resistance: 100m Ω max.

Withstanding Voltage: 125V ACrms for 1 minute

Voltage Rating: 50V ACrms **Current Rating:** 0.3A

Operating Temp. Range: -20°C to +85°C

Differential Impedance:

Inserertion / Extraction: 30 times max.



Materials and Finish

LCP (GF), black Housing: Lock Hold: SUS t = 0.2mm

Phosphor Bronze, (t = 0.15mm) Ni-Au plating Contacts: Terminal: Phosphor Bronze, (t = 0.15mm) Ni-Au plating

Features

- Suitable for LVDS, HDMI, DVI, PCI express and S-ATA data transmission
- Easy operation by side-locking mechanism prevents cable angularinsertion and guarantees secure locking

Outline Dimensions for 90° Socket

0, 50



Orientation for 90° Socket

Part Number (Details)

HF507S

Series No.

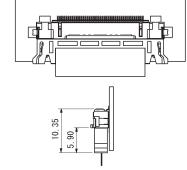
No. of Contacts

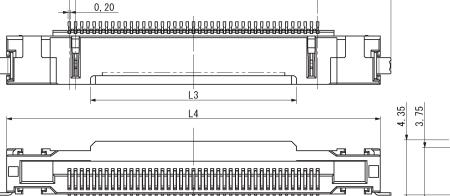
(21, 31, 41 and 51)

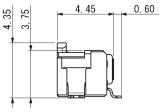
01 = 90° Without Shielding 03 = 90° With Shielding

Applicable Cable

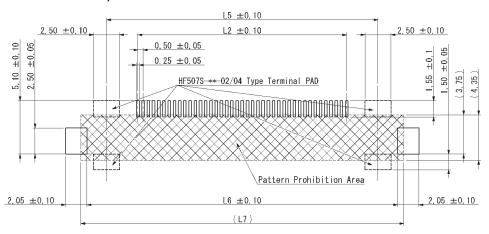
see page C-5 to C-7







Recommended PCB Layout



Part Number	Pin Count	L1	L2	L3	L4	L5	L6	L7
HF507S-21-0*	21	16.00	10.00	6.60	20.10	16.00	19.75	20.95
HF507S-31-0*	31	21.00	15.00	11.60	25.10	21.00	24.75	25.95
HF507S-41-0*	41	26.00	20.00	16.60	30.10	26.00	29.75	30.95
HF507S-51-0*	51	31.00	25.00	21.60	35.10	31.00	34.75	35.95

Series HF507S Non-ZIF 180° Socket for High Speed Applications

Specifications

 $\begin{array}{ll} \mbox{Insulation Resistance:} & \mbox{100M}\Omega \mbox{ min.} \\ \mbox{Contact Resistance:} & \mbox{100m}\Omega \mbox{ max.} \end{array}$

Withstanding Voltage: 125V ACrms for 1 minute

Voltage Rating: 50V ACrms
Current Rating: 0.3A

Operating Temp. Range: -20°C to $+85^{\circ}\text{C}$

Differential Impedance: 100Ω

Inserertion / Extraction: 30 times max.

Materials and Finish

Housing: LCP (GF), black Lock Hold: SUS t = 0.2mm

Contacts: Phosphor Bronze, (t = 0.15mm) Ni-Au plating Terminal: Phosphor Bronze, (t = 0.15mm) Ni-Au plating

Features

- Suitable for LVDS, HDMI, DVI, PCI express and S-ATA data transmission
- Easy operation by side-locking mechanism prevents cable angularinsertion and guarantees secure locking

Part Number (Details)

HF507S - 21 - *

Series No.

No. of Contacts (21, 31, 41 and 51)

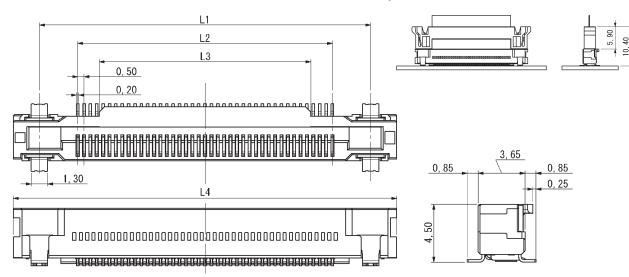
02 = 180° Without Shielding 04 = 180° With Shielding*

*180° with shielding not available for 21 pin version

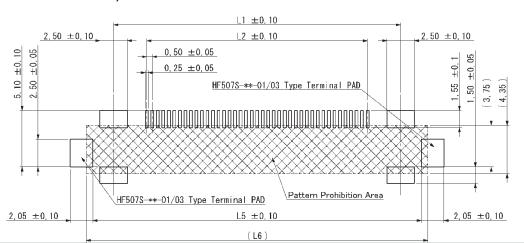
Applicable Cable see page C-5 to C-7

Outline Dimensions for 180° Socket

Orientation for 180° Socket



Recommended PCB Layout



Part Number	Pin Count	L1	L2	L3	L4	L5	L6
HF507S-21-0*	21	16.00	10.00	6.60	20.10	19.75	20.95
HF507S-31-0*	31	21.00	15.00	11.60	25.10	24.75	25.95
HF507S-41-0*	41	26.00	20.00	16.60	30.10	29.75	30.95
HF507S-51-0*	51	31.00	25.00	21.60	35.10	34.75	35.95