



Kabellänge: 500mm

FSC D2703-S; Hirose DF13-40, straight, SMT			Sharp LQ190	
LVDS-Connector			FI-X30SSL-HF (Japan Aviation Electronics)	
SIGNAL	SYMBOL	PIN	Pin No.	Symbol
Ground	GND	1		
Ground	GND	2		
LVDS_Out3+ (ODD_3+)	LO3+	3	11	RxO3+
LVDS_Out7+ (EVEN_3+)	LO7+	4	23	RxE3+
LVDS_Out3- (ODD_3-)	LO3-	5	10	RxO3-
LVDS_Out7- (EVEN_3-)	LO7-	6	22	RxE3-
Ground	GND	7	7	GND
Ground	GND	8		
LVDS_Out2+ (ODD_2+)	LO2+	9	6	RxO2+
LVDS_Out6+ (EVEN_2+)	LO6+	10	19	RxE2+
LVDS_Out2- (ODD_2-)	LO2-	11	5	RxO2-
LVDS_Out6- (EVEN_2-)	LO6-	12	18	RxE2-
Ground	GND	13		
Ground	GND	14	14	GND
LVDS_Out1+ (ODD_1+)	LO1+	15	4	RxO1+
LVDS_Out5+ (EVEN_1+)	LO5+	16	16	RxE1+
LVDS_Out1- (ODD_1-)	LO1-	17	3	RxO1-
LVDS_Out5- (EVEN_1-)	LO5-	18	15	RxE1-
Ground	GND	19		
Ground	GND	20	17	GND
LVDS_Out0+ (ODD_0+)	LO0+	21	2	RxO0+
LVDS_Out4+ (EVEN_0+)	LO4+	22	13	RxE0+
LVDS_Out0- (ODD_0-)	LO0-	23	1	RxO0-
LVDS_Out4- (EVEN_0-)	LO4-	24	12	RxE0-
Ground	GND	25	24	GND
Ground	GND	26	25	SEL LVDS
LVDS_CLK1+ (CLK_ODD+)	CLK1+	27	9	RxOC+
LVDS_CLK2+ (CLK_EVEN+)	CLK2+	28	21	RxEC+
LVDS_CLK1- (CLK_ODD-)	CLK1-	29	8	RxOC-
LVDS_CLK2- (CLK_EVEN-)	CLK2-	30	20	RxEC-
Ground	GND	31		
Ground	GND	32		
DDC-Clock	DDCCLK	33		
DDC-Data	DDCDATA	34		
LCD-Power <sup>1)</sup>	+3.3V / +5V	35	28	Vcc
LCD-Power <sup>1)</sup>	+3.3V / +5V	36	29	Vcc
LCD-Power <sup>1)</sup>	+3.3V / +5V	37	30	Vcc
Ground	GND	38		
Ground	GND	39		
LCD_PowerOn	LCD_On	40	26	PD

1) selectable via Jumper

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FSC D2703-S; JST PHR-8			PowerSystems PS-DA0412-05	
Inverter-Connector			B8B-PH-K (JST or equal)	
Ground	GND	1	4	GND
Ground	GND	2	5	GND
Backlight Brightness CTRL	tbd	3	7	BRT_Adj
Power 5V	VCC	4		
Power 5V	VCC	5		
Backlight On/Off Control	BL On/Off	6	8	BL On/Off
Power 12V	+12V	7	1	DC-In / 12V
Power 12V	+12V	8	2	DC-In / 12V

LVDS TFT / Inverter Steckerbelegung  
Ausgabe 1.0 21.06.2007

LVDS-Belegung lt. Datenblatt

Table 10-1 Interface signals (CN1)

Pin No.	Symbol	I/O	Function
1	RxO0-	I	Negative differential input
2	RxO0+	I	Positive differential input
3	RxO1-	I	Negative differential input
4	RxO1+	I	Positive differential input
5	RxO2-	I	Negative differential input
6	RxO2+	I	Positive differential input
7	GND	—	Ground
8	RxOC-	I	Negative differential input
9	RxOC+	I	Positive differential input
10	RxO3-	I	Negative differential input
11	RxO3+	I	Positive differential input
12	RxE0-	I	Negative differential input
13	RxE0+	I	Positive differential input
14	GND	—	Ground
15	RxE1-	I	Negative differential input
16	RxE1+	I	Positive differential input
17	GND	—	Ground
18	RxE2-	I	Negative differential input
19	RxE2+	I	Positive differential input
20	RxEC-	I	Negative differential input
21	RxEC+	I	Positive differential input
22	RxE3-	I	Negative differential input
23	RxE3+	I	Positive differential input
24	GND	—	Ground
25	SEL LVDS	I	Select LVDS Mapping
26	PD	—	LVDS Core Power Down
27	TST	—	Test pin *1
28	Vcc	—	+5V power supply
29	Vcc	—	+5V power supply
30	Vcc	—	+5V power supply

Connector : FI-X30SSL-HF (Japan Aviation Electronics)

User's connector : FI-X30M (FPC type)

FI-X30H (Wire type), FI-X30HL (Wire with lock)

FI-X30C (Coaxial cable type), FI-X30C2L (Coaxial cable with lock)

\*Note : PD input can be set open, if it is not used.

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Components				
No.	Part Description	Qty.	Material	Note
1	PCB	1	UL94V-0 (FR-4 or CEM-3)	t=1mm
2	Connector CN1	1	B8B-PH-K	JST or equal
3	Connector CN2 ~ CN5	4	SM02(8.0)B-BHS-1-TB	JST or equal

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1;2;3	Vin	10.8 ~ 13.2 Vdc
CN 1-4;5;6	GND	
CN 1-7	Vbr	0 ~ 3.0 Vdc
CN 1-8	Vrmt	0 ~ 0.5 = OFF / 3.3 ~ Vin = ON

Output side CN2 ~ CN5:

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	750 Vrms (7.0 mArms)
CN 2-2	N.C.	-
CN 2-3	Vlow	(GND)