SPI + LASER BUS

REFERENCE VOLTAGE 2.048V +/- 1%

DAC VOLTAGE SWING 0V TO 4.096V

X+=(DAC_X-2.048)x4.99 SWING FROM -10.2 TO 10.2V

Y+=(DAC_X-2.048)x4.99 SWING FROM -10.2 TO 10.2V

MODULATION=(DAC_Yx1.22) SWING FROM 0 TO 5V

FREQUENCY MODULATION DUTY CYCLE MUST BE NEAR 80% ON / 20% OFF TO SAVE LASER BRIGHTNESS R123 SET THIS DUTY CYCLE

0.7 x C84 x R123 / 12fg/S = 0.7 x 10nF x 15K / 12fg/S = 0.82

SET TO "YES" IF YOU ARE USING A SYNCHRONOUS DEMODULATION SENSOR

TXT: ILDA INTERFACE

ILDA INTERFACE

HTTP://WWW.HARPELASER.COM

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(•) = NOT MOUNTED

RS = RADIOSPARES
FD = FARNELL
DK = DIGIKEY

ALL SMD CAPACITORS ARE X7R UNLESS OTHERWISE SPECIFIED

MORISSEAU Franck
A.K.A. GENESIS

SCHEMA:	mainboard
NOM:	LASER HARP V1.1
REF.:	MAINBOARD
REV.:	C
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REPRODUCTION PARTIELLE OU TOTALE
SOUMISE A MON ACCORD PREALABLE