8-Output Any-Frequency CMOS Clock Generator

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Overview
========
Part:               Si5351C
Created By:         ClockBuilder Pro v2.37.0.1 [2019-09-26]
Timestamp:          2019-11-04 17:34:32 GMT+00:00

Design Rule Check
=================
Errors:
- No errors

Warnings:
- No warnings

Design
======
Inputs:
    IN0: Unused
    IN1: 50 MHz

Outputs:
   OUT0: 20 MHz
         Disabled LVCMOS 8 mA
         Offset 0.000 s
   OUT1: 80 MHz
         Enabled LVCMOS 8 mA
         Offset 0.000 s
   OUT2: 49.152 MHz
         Enabled LVCMOS 8 mA
         Offset 0.000 s
   OUT3: 147.456 MHz
         [ OUT2*3 ]
         Disabled LVCMOS 8 mA
         Offset 0.000 s
   OUT4: Unused
   OUT5: 50 MHz
         Enabled LVCMOS 8 mA
         Offset 0.000 s
   OUT6: 12 MHz
         Enabled LVCMOS 8 mA
         Offset 0.000 s
   OUT7: Unused

Frequency Plan
==============
PLL_A:
   Enabled Features = None
   Fvco             = 884.736 MHz
   M                = 35.38944
   Input1:
      Source           = CLKIN
      Source Frequency = 50 MHz
      P                = 2  (2^1)
      Fpfd             = 25 MHz
   Output0:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 20 MHz
      N              = 44.2368
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   Output1:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 80 MHz
      N              = 11.0592
   Output2:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 49.152 MHz
      N              = 18
   Output3:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 147.456 MHz
      N              = 6
   Output5:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 50 MHz
      N              = 17.69472
PLL_B:
   Enabled Features = None
   Fvco             = 888 MHz
   M                = 35.52
   Input1:
      Source           = CLKIN
      Source Frequency = 50 MHz
      P                = 2  (2^1)
      Fpfd             = 25 MHz
   Output6:
      Features       = None
      Disabled State = StopLow
      R              = 1  (2^0)
      Fout           = 12 MHz
      N              = 74

Settings
========

Location      Setting Name     Decimal Value      Hex Value
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0x0002[3]     XO_LOS_MASK      1                  0x1
0x0002[4]     CLK_LOS_MASK     0                  0x0
0x0002[5]     LOL_A_MASK       0                  0x0
0x0002[6]     LOL_B_MASK       0                  0x0
0x0002[7]     SYS_INIT_MASK    0                  0x0
0x0003[7:0]   CLK_OEB          9                  0x09
0x0007[7:4]   I2C_ADDR_CTRL    0                  0x0
0x000F[2]     PLLA_SRC         1                  0x1
0x000F[3]     PLLB_SRC         1                  0x1
0x000F[4]     PLLA_INSELB      0                  0x0
0x000F[5]     PLLB_INSELB      0                  0x0
0x000F[7:6]   CLKIN_DIV        1                  0x1
0x0010[1:0]   CLK0_IDRV        3                  0x3
0x0010[3:2]   CLK0_SRC         3                  0x3
0x0010[4]     CLK0_INV         0                  0x0
0x0010[5]     MS0_SRC          0                  0x0
0x0010[6]     MS0_INT          0                  0x0
0x0010[7]     CLK0_PDN         0                  0x0
0x0011[1:0]   CLK1_IDRV        3                  0x3
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0x0011[3:2]	CLK1_SRC	3	0x3
0x0011[4]	CLK1_INV	0	0x0
0x0011[5]	MS1_SRC	0	0x0
0x0011[6]	MS1_INT	0	0x0
0x0011[7]	CLK1_PDN	0	0x0
0x0012[1:0]	CLK2_IDRV	3	0x3
0x0012[3:2]	CLK2_SRC	3	0x3
0x0012[4]	CLK2_INV	0	0x0
0x0012[5]	MS2_SRC	0	0x0
0x0012[6]	MS2_INT	0	0x0
0x0012[7]	CLK2_PDN	0	0x0
0x0013[1:0]	CLK3_IDRV	3	0x3
0x0013[3:2]	CLK3_SRC	3	0x3
0x0013[4]	CLK3_INV	0	0x0
0x0013[5]	MS3_SRC	0	0x0
0x0013[6]	MS3_INT	1	0x1
0x0013[7]	CLK3_PDN	0	0x0
0x0014[1:0]	CLK4_IDRV	0	0x0
0x0014[3:2]	CLK4_SRC	3	0x3
0x0014[4]	CLK4_INV	0	0x0
0x0014[5]	MS4_SRC	0	0x0
0x0014[6]	MS4_INT	0	0x0
0x0014[7]	CLK4_PDN	1	0x1
0x0015[1:0]	CLK5_IDRV	3	0x3
0x0015[3:2]	CLK5_SRC	3	0x3
0x0015[4]	CLK5_INV	0	0x0
0x0015[5]	MS5_SRC	0	0x0
0x0015[6]	MS5_INT	0	0x0
0x0015[7]	CLK5_PDN	0	0x0
0x0016[1:0]	CLK6_IDRV	3	0x3
0x0016[3:2]	CLK6_SRC	3	0x3
0x0016[4]	CLK6_INV	0	0x0
0x0016[5]	MS6_SRC	1	0x1
0x0016[6]	FBA_INT	0	0x0
0x0016[7]	CLK6_PDN	0	0x0
0x0017[1:0]	CLK7_IDRV	0	0x0
0x0017[3:2]	CLK7_SRC	3	0x3
0x0017[4]	CLK7_INV	0	0x0
0x0017[5]	MS7_SRC	0	0x0
0x0017[6]	FBB_INT	0	0x0
0x0017[7]	CLK7_PDN	1	0x1
0x001C[17:0]	MSNA_P1	4017	0x00FB1
0x001F[19:0]	MSNA_P2	2651	0x00A5B
0x001F[23:4]	MSNA_P3	3125	0x00C35
0x0024[17:0]	MSNB_P1	4034	0x00FC2
0x0027[19:0]	MSNB_P2	14	0x0000E
0x0027[23:4]	MSNB_P3	25	0x00019
0x002C[17:0]	MS0_P1	5150	0x0141E
0x002F[19:0]	MS0_P2	194	0x000C2
0x002F[23:4]	MS0_P3	625	0x00271
0x0034[17:0]	MS1_P1	903	0x00387
0x0037[19:0]	MS1_P2	361	0x00169
0x0037[23:4]	MS1_P3	625	0x00271
0x003C[17:0]	MS2_P1	1792	0x00700
0x003F[19:0]	MS2_P2	0	0x00000
0x003F[23:4]	MS2_P3	1	0x00001
0x0044[17:0]	MS3_P1	256	0x00100
0x0047[19:0]	MS3_P2	0	0x00000
0x0047[23:4]	MS3_P3	1	0x00001
0x0054[17:0]	MS5_P1	1752	0x006D8
0x0057[19:0]	MS5_P2	2888	0x00B48
0x0057[23:4]	MS5_P3	3125	0x00C35
0x005A[7:0]	MS6_P1	74	0x4A
0x005B[7:0]	MS7_P1	0	0x00

0x0095[14:0]	SSDN_P2	0	0x0000
0x0095[7]	SSC_EN	0	0x0
0x0097[14:0]	SSDN_P3	0	0x0000
0x0097[7]	SSC_MODE	0	0x0
0x0099[11:0]	SSDN_P1	0	0x000
0x009A[15:4]	SSUDP	0	0x000
0x00A2[21:0]	VCXO_PARAM	0	0x000000
0x00B7[7:6]	XTAL_CL	0	0x0
0x00BF[7:0]	SLAB_FIXREGSA0	3	0x03
0x00C0[7:0]	SLAB_FIXREGSD0	9	0x09
0x00CD[7]	SLAB_FIXREGS_EN	1	0x1

This datasheet addendum is provided as supplemental information to the Si5351C datasheet, located at www.silabs.com/timing. You can search for and download any datasheet addendum for ClockBuilder Pro generated custom part numbers. Go to http://www.silabs.com/custom-timing for more information.

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