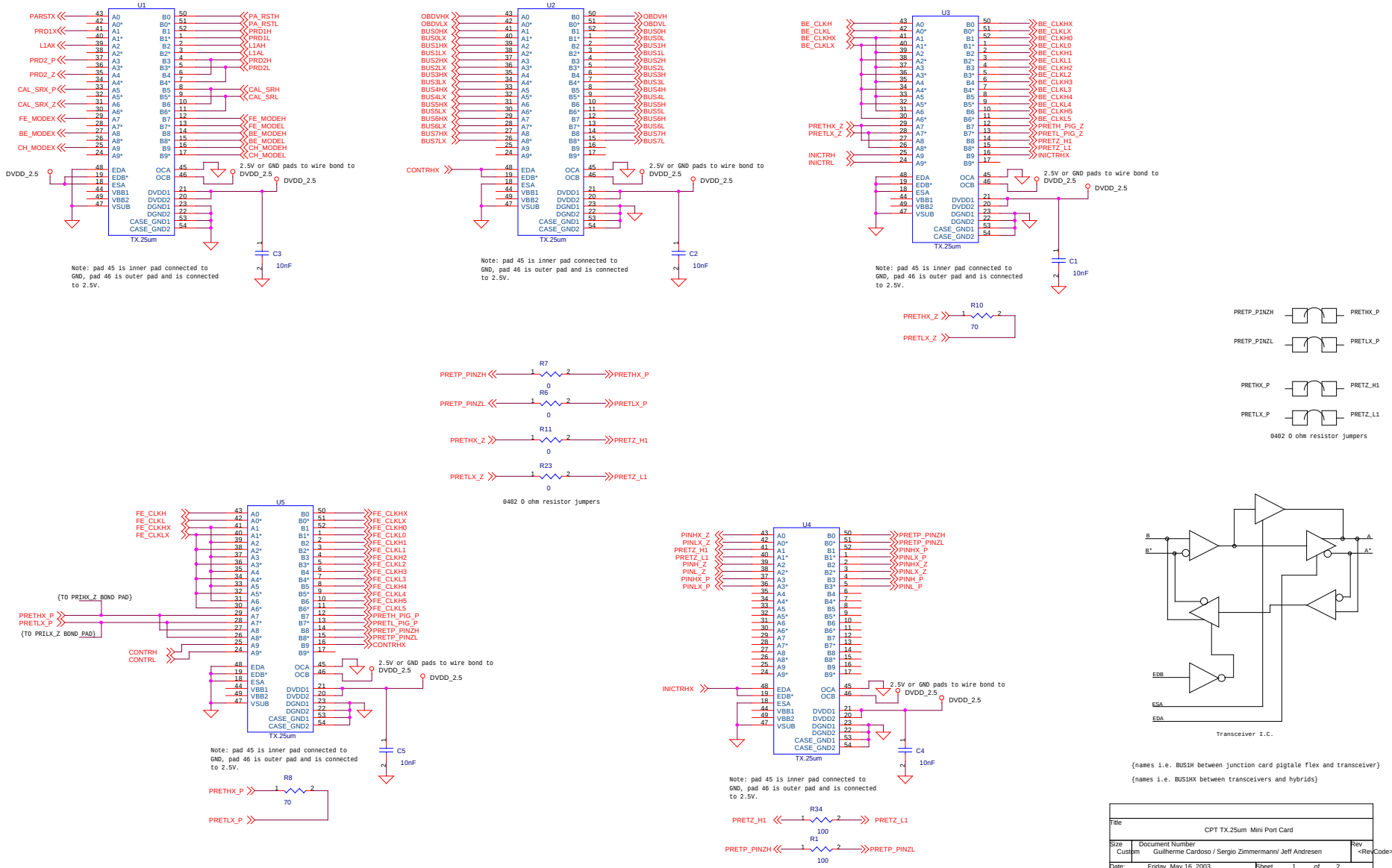
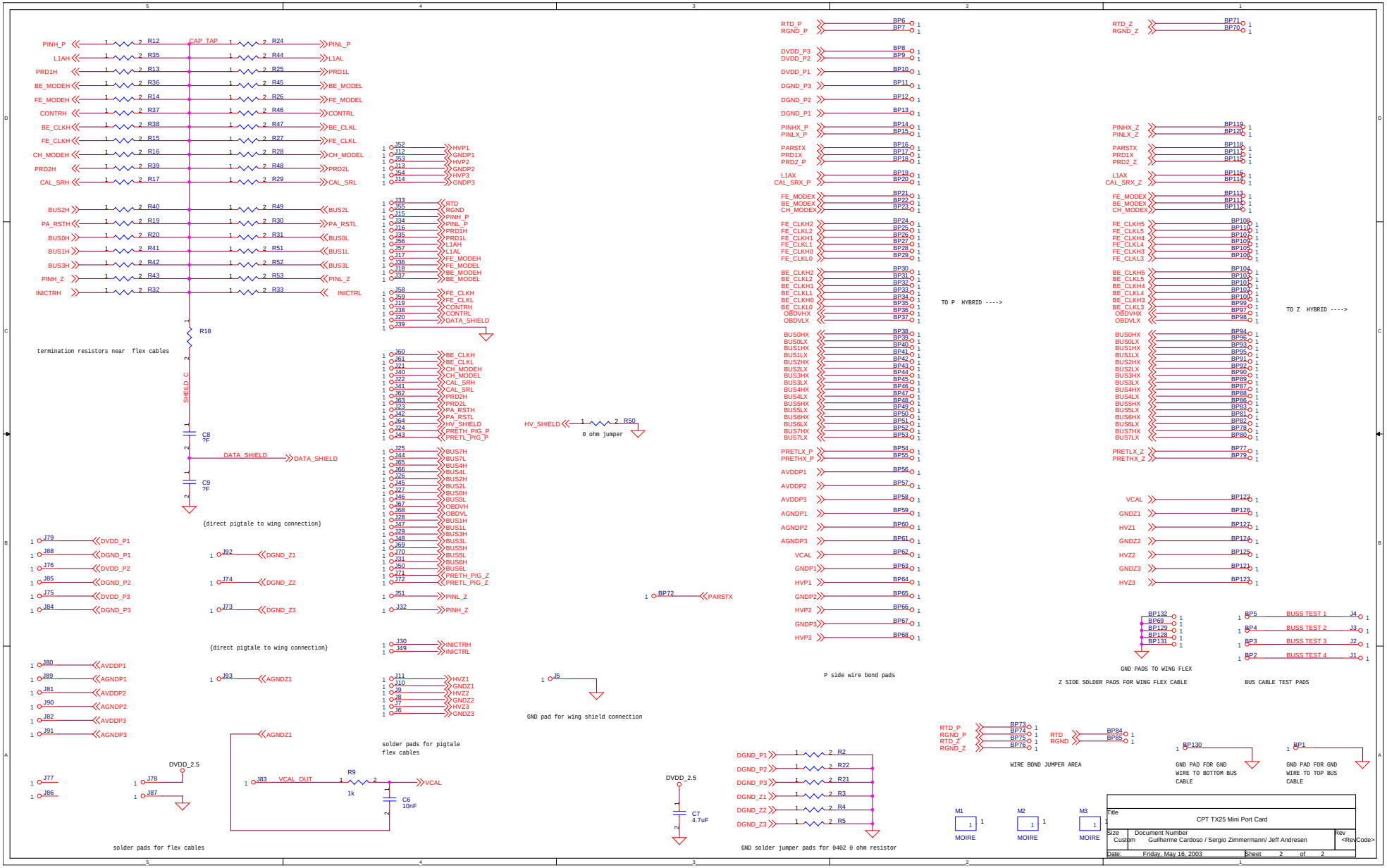

U1
TX.25um
PARSTX
PRD1X
L1AX
PRD2_P
PRD2_Z
CAL_SRX_P
CAL_SRX_Z
FE_MODEX
BE_MODEX
CH_MODEX
PA_RSTH
PA_RSTL
PRD1H
PRD1L
L1AH
L1AL
PRD2H
PRD2L
CAL_SRH
CAL_SRL
FE_MODEH
FE_MODEL
BE_MODEH
BE_MODEL
CH_MODEH
CH_MODEL
2.5V or GND pads to wire bond to DVDD_2.5
DVDD_2.5
C3
10nF
Note: pad 45 is inner pad connected to GND, pad 46 is outer pad and is connected to 2.5V.
U2
TX.25um
OBDVHX
OBDVLX
BUS0HX
BUS0LX
BUS1HX
BUS1LX
BUS2HX
BUS2LX
BUS3HX
BUS3LX
BUS4HX
BUS4LX
BUS5HX
BUS5LX
BUS6HX
BUS6LX
BUS7HX
BUS7LX
CONTRHX
OBDVH
OBDVL
BUS0H
BUS0L
BUS1H
BUS1L
BUS2H
BUS2L
BUS3H
BUS3L
BUS4H
BUS4L
BUS5H
BUS5L
BUS6H
BUS6L
BUS7H
BUS7L
C2
10nF
Note: pad 45 is inner pad connected to GND, pad 46 is outer pad and is connected to 2.5V.
U3
TX.25um
BE_CLKH
BE_CLKL
BE_CLKHX
BE_CLKLX
PRETHX_Z
PRETLX_Z
INICTRH
INICTRL
BE_CLKHX
BE_CLKLX
BE_CLKH0
BE_CLKL0
BE_CLKH1
BE_CLKL1
BE_CLKH2
BE_CLKL2
BE_CLKH3
BE_CLKL3
BE_CLKH4
BE_CLKL4
BE_CLKH5
BE_CLKL5
PRETH_PIG_Z
PRETL_PIG_Z
PRETZ_H1
PRETZ_L1
INICTRHX
C1
10nF
Note: pad 45 is inner pad connected to GND, pad 46 is outer pad and is connected to 2.5V.
R10
70
R7
0
R6
0
R11
0
R23
0
0402 O ohm resistor jumpers
PRETP_PINZH
PRETP_PINZL
PRETHX_P
PRETLX_P
PRETZ_H1
PRETZ_L1
0402 O ohm resistor jumpers
U5
TX.25um
FE_CLKH
FE_CLKL
FE_CLKHX
FE_CLKLX
{TO PRIHX_Z BOND PAD}
{TO PRILX_Z BOND PAD}
PRETHX_P
PRETLX_P
CONTRH
CONTRL
FE_CLKHX
FE_CLKLX
FE_CLKH0
FE_CLKL0
FE_CLKH1
FE_CLKL1
FE_CLKH2
FE_CLKL2
FE_CLKH3
FE_CLKL3
FE_CLKH4
FE_CLKL4
FE_CLKH5
FE_CLKL5
PRETH_PIG_P
PRETL_PIG_P
PRETP_PINZH
PRETP_PINZL
CONTRHX
2.5V or GND pads to wire bond to DVDD_2.5
DVDD_2.5
C5
10nF
Note: pad 45 is inner pad connected to GND, pad 46 is outer pad and is connected to 2.5V.
R8
70
U4
TX.25um
PINHX_Z
PINLX_Z
PRETZ_H1
PRETZ_L1
PINH_Z
PINL_Z
PINHX_P
PINLX_P
PRETP_PINZH
PRETP_PINZL
PINHX_P
PINLX_P
PINHX_Z
PINLX_Z
PINH_P
PINL_P
INICTRHX
2.5V or GND pads to wire bond to DVDD_2.5
DVDD_2.5
C4
10nF
Note: pad 45 is inner pad connected to GND, pad 46 is outer pad and is connected to 2.5V.
R34
100
R1
100
B
B*
A
A*
EDB
ESA
EDA
Transceiver I.C.
{names i.e. BUS1H between junction card pigtale flex and transceiver}
{names i.e. BUS1HX between transceivers and hybrids}
Title
CPT TX.25um Mini Port Card
Size
Custom
Document Number
Guilherme Cardoso / Sergio Zimmermann/ Jeff Andresen
Rev
<RevCode>
Date:
Friday, May 16, 2003
Sheet 1 of 2


PINH_P R12 CAP_TAP R24 PINL_P
L1AH R35 R44 L1AL
PRD1H R13 R25 PRD1L
BE_MODEH R36 R45 BE_MODEL
FE_MODEH R14 R26 FE_MODEL
CONTRH R37 R46 CONTRL
BE_CLKH R38 R47 BE_CLKL
FE_CLKH R15 R27 FE_CLKL
CH_MODEH R16 R28 CH_MODEL
PRD2H R39 R48 PRD2L
CAL_SRH R17 R29 CAL_SRL
BUS2H R40 R49 BUS2L
PA_RSTH R19 R30 PA_RSTL
BUS0H R20 R31 BUS0L
BUS1H R41 R51 BUS1L
BUS3H R42 R52 BUS3L
PINH_Z R43 R53 PINL_Z
INICTRH R32 R33 INICTRL
R18
SHIELD_C
termination resistors near flex cables
C8 7F
C9 7F
DATA_SHIELD
{direct pigtale to wing connection}
J52 HVP1
J12 GNDP1
J53 HVP2
J13 GNDP2
J54 HVP3
J14 GNDP3
J33 RTD
J55 RGND
J15 PINH_P
J34 PINL_P
J16 PRD1H
J35 PRD1L
J56 L1AH
J57 L1AL
J17 FE_MODEH
J36 FE_MODEL
J18 BE_MODEH
J37 BE_MODEL
J58 FE_CLKH
J59 FE_CLKL
J19 CONTRH
J38 CONTRL
J20 DATA_SHIELD
J39
J60 BE_CLKH
J61 BE_CLKL
J21 CH_MODEH
J40 CH_MODEL
J22 CAL_SRH
J41 CAL_SRL
J62 PRD2H
J63 PRD2L
J23 PA_RSTH
J42 PA_RSTL
J64 HV_SHIELD
J24 PRETH_PIG_P
J43 PRETL_PIG_P
J25 BUS7H
J44 BUS7L
J65 BUS4H
J66 BUS4L
J26 BUS2H
J45 BUS2L
J27 BUS0H
J46 BUS0L
J67 OBDVH
J68 OBDVL
J28 BUS1H
J47 BUS1L
J29 BUS3H
J48 BUS3L
J69 BUS5H
J70 BUS5L
J31 BUS6H
J50 BUS6L
J71 PRETH_PIG_Z
J72 PRETL_PIG_Z
J51 PINL_Z
J32 PINH_Z
J30 INICTRH
J49 INICTRL
J11 HVZ1
J10 GNDZ1
J9 HVZ2
J8 GNDZ2
J7 HVZ3
J6 GNDZ3
solder pads for pigtale flex cables
HV_SHIELD R50
0 ohm jumper
J5
GND pad for wing shield connection
BP72 PARSTX
RTD_P BP6
RGND_P BP7
DVDD_P3 BP8
DVDD_P2 BP9
DVDD_P1 BP10
DGND_P3 BP11
DGND_P2 BP12
DGND_P1 BP13
PINHX_P BP14
PINLX_P BP15
PARSTX BP16
PRD1X BP17
PRD2_P BP18
L1AX BP19
CAL_SRX_P BP20
FE_MODEX BP21
BE_MODEX BP22
CH_MODEX BP23
FE_CLKH2 BP24
FE_CLKL2 BP25
FE_CLKH1 BP26
FE_CLKL1 BP27
FE_CLKH0 BP28
FE_CLKL0 BP29
BE_CLKH2 BP30
BE_CLKL2 BP31
BE_CLKH1 BP32
BE_CLKL1 BP33
BE_CLKH0 BP34
BE_CLKL0 BP35
OBDVHX BP36
OBDVLX BP37
BUS0HX BP38
BUS0LX BP39
BUS1HX BP40
BUS1LX BP41
BUS2HX BP42
BUS2LX BP43
BUS3HX BP44
BUS3LX BP45
BUS4HX BP46
BUS4LX BP47
BUS5HX BP48
BUS5LX BP49
BUS6HX BP50
BUS6LX BP51
BUS7HX BP52
BUS7LX BP53
PRETLX_P BP54
PRETHX_P BP55
AVDDP1 BP56
AVDDP2 BP57
AVDDP3 BP58
AGNDP1 BP59
AGNDP2 BP60
AGNDP3 BP61
VCAL BP62
GNDP1 BP63
HVP1 BP64
GNDP2 BP65
HVP2 BP66
GNDP3 BP67
HVP3 BP68
TO P HYBRID ---->
P side wire bond pads
RTD_Z BP71
RGND_Z BP70
PINHX_Z BP119
PINLX_Z BP120
PARSTX BP118
PRD1X BP117
PRD2_Z BP115
L1AX BP116
CAL_SRX_Z BP114
FE_MODEX BP113
BE_MODEX BP111
CH_MODEX BP112
FE_CLKH5 BP108
FE_CLKL5 BP110
FE_CLKH4 BP107
FE_CLKL4 BP109
FE_CLKH3 BP105
FE_CLKL3 BP106
BE_CLKH5 BP104
BE_CLKL5 BP103
BE_CLKH4 BP101
BE_CLKL4 BP102
BE_CLKH3 BP100
BE_CLKL3 BP99
OBDVHX BP97
OBDVLX BP98
BUS0HX BP94
BUS0LX BP96
BUS1HX BP93
BUS1LX BP95
BUS2HX BP91
BUS2LX BP92
BUS3HX BP90
BUS3LX BP89
BUS4HX BP87
BUS4LX BP88
BUS5HX BP86
BUS5LX BP83
BUS6HX BP81
BUS6LX BP82
BUS7HX BP78
BUS7LX BP80
PRETLX_Z BP77
PRETHX_Z BP79
TO Z HYBRID ---->
VCAL BP122
GNDZ1 BP126
HVZ1 BP127
GNDZ2 BP124
HVZ2 BP125
GNDZ3 BP121
HVZ3 BP123
Z SIDE SOLDER PADS FOR WING FLEX CABLE
BP132
BP69
BP129
BP128
BP131
GND PADS TO WING FLEX
BP5 BUSS TEST 1 J4
BP4 BUSS TEST 2 J3
BP3 BUSS TEST 3 J2
BP2 BUSS TEST 4 J1
BUS CABLE TEST PADS
J79 DVDD_P1
J88 DGND_P1
J76 DVDD_P2
J85 DGND_P2
J75 DVDD_P3
J84 DGND_P3
J92 DGND_Z1
J74 DGND_Z2
J73 DGND_Z3
{direct pigtale to wing connection}
J80 AVDDP1
J89 AGNDP1
J81 AVDDP2
J90 AGNDP2
J82 AVDDP3
J91 AGNDP3
J93 AGNDZ1
J77
J86
DVDD_2.5
J78
J87
AGNDZ1
J83 VCAL_OUT R9 1k VCAL
C6 10nF
solder pads for flex cables
DVDD_2.5
C7 4.7uF
DGND_P1 R2
DGND_P2 R22
DGND_P3 R21
DGND_Z1 R3
DGND_Z2 R4
DGND_Z3 R5
GND solder jumper pads for 0402 0 ohm resistor
RTD_P BP73
RGND_P BP74
RTD_Z BP75
RGND_Z BP76
RTD BP84
RGND BP85
WIRE BOND JUMPER AREA
BP130
GND PAD FOR GND WIRE TO BOTTOM BUS CABLE
BP1
GND PAD FOR GND WIRE TO TOP BUS CABLE
M1 MOIRE
M2 MOIRE
M3 MOIRE
Title CPT TX25 Mini Port Card
Size Custom
Document Number Guilherme Cardoso / Sergio Zimmermann/ Jeff Andresen
Rev <RevCode>
Date: Friday, May 16, 2003
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