A	2-TE-0070-020-11-A	THIS DRAWING CONFORMS TO B.S. 3939

J0

SK-HARBUSHM-SHIELDED-95

SK9

4	TTS_J0_READY
23	TTS_J0_READY_B
42	
61	TTS_J0_BUSY
80	TTS_J0_BUSY_B
5	TTS_J0_WARN_OVRFLW
24	TTS_J0_WARN_OVRFLW_B
43	
62	TTS_J0_OUT_OF_SYNC
81	TTS_J0_OUT_OF_SYNC_B
6	BE_J0_SPARE<0>
25	BE_J0_SPARE<1>
44	
63	BE_J0_SPARE<2>
82	BE_J0_SPARE<3>
7	TEST_TRIG
26	TEST_TRIG_B
45	
64	
83	
8	
27	
46	
65	
84	
9	TEST_CLK
28	TEST_CLK_B
47	
66	VME_J0_SPARE<0>
85	VME_J0_SPARE<1>
10	
29	
48	
67	
86	
11	
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95	

J1

PL-HARBUS564-160

PL17

D<0>	1	4	D<8>
BBSY#	2	5	+5VIN
GND	3	6	D<9>
D<1>	7	10	GND
BCLR#	8	11	D<10>
D<2>	12	15	+V1
ACFAIL#	13	16	D<11>
D<3>	17	20	+V2
BG0IN#	18	21	D<12>
D<4>	22	25	
BG0OUT#	23	26	D<13>
D<5>	27	30	-V1
BG1IN#	28	31	D<14>
D<6>	32	35	-V2
BG1OUT#	33	36	D<15>
D<7>	37	40	
BG2IN#	38	41	GAP#
BG2OUT#	42	45	SYSFAIL#
SYSCLK	43	46	GA0#
BG3IN#	47	50	BERR#
RESP#	48	51	GA1#
BG3OUT#	52	55	SYSRESET#
DS1#	53	56	3U3IN
BR0#	57	60	LWORD#
DS0#	58	61	GA2#
BR1#	62	65	AM<5>
WRITE#	63	66	
BR2#	67	70	A<23>
BR3#	68	71	GA3#
DTACK#	72	75	A<22>
AM<0>	73	76	
AM<1>	77	80	A<21>
AS#	78	81	GA4#
AM<2>	82	85	A<20>
AM<3>	86	90	A<19>
IACK#	87	91	A<18>
IACKIN#	88	92	A<17>
SERA	93	96	A<16>
IACKOUT#	97	100	A<15>
SERB	98	101	A<14>
AM<4>	102	105	A<13>
A<7>	103	106	A<12>
IRQ7#	107	110	A<11>
A<6>	108	111	LI/I#
IRQ6#	112	115	A<10>
A<5>	113	116	A<9>
IRQ5#	117	120	LI/O#
A<4>	118	121	A<8>
IRQ4#	122	125	
A<3>	123	126	+12VIN
IRQ3#	127	130	
A<2>	128	131	+5VIN
IRQ2#	132	135	+5VIN
A<1>	133	136	
IRQ1#	137	140	
-12VIN	138	141	+5VIN
+5VIN	142	145	+5VIN
+5VIN	143	146	
	147	150	
	148	151	
	152	155	
	153	156	
	157	160	
	158		

J2

PL-HARBUS564-160

PL18

SLINK_UD<4>	1	4	SLINK_UD<22>
+5VIN	2	5	
GND	3	6	SLINK_UD<23>
SLINK_UD<5>	7	10	
SLINK_URESET#	8	11	SLINK_UD<12>
SLINK_UD<2>	12	15	SLINK_LRL<0>
RETRY#	13	16	SLINK_UD<13>
SLINK_UD<3>	17	20	SLINK_LDOWN#
A<24>	18	21	SLINK_UD<0>
SLINK_UTEST#	22	25	SLINK_LSF<3>
SLINK_UD<14>	23	26	SLINK_UD<1>
A<25>	27	30	SLINK_LSF<2>
SLINK_UD<15>	28	31	SLINK_UD<6>
A<26>	32	35	SLINK_LSF<1>
SLINK_UCNTL#	33	36	SLINK_UD<7>
SLINK_UD<16>	37	40	SLINK_LSF<0>
A<27>	38	41	SLINK_UD<8>
SLINK_UD<17>	42	45	
A<28>	43	46	SLINK_UD<9>
SLINK_UDW1	47	50	
SLINK_UD<10>	48	51	SLINK_UD<20>
A<29>	52	55	
SLINK_UD<11>	53	56	SLINK_UD<21>
A<30>	57	60	
SLINK_UDW0	58	61	SLINK_UD<26>
SLINK_UD<24>	62	65	
A<31>	63	66	SLINK_UD<27>
SLINK_UD<25>	67	70	
SLINK_UWEN#	68	71	SLINK_UD<28>
SLINK_UD<18>	72	75	
SLINK_UD<19>	73	76	SLINK_UD<29>
D<16>	77	80	
SLINK_UCLK	78	81	SLINK_UD<30>
SLINK_UD<36>	82	85	
D<17>	83	86	SLINK_UD<31>
SLINK_UD<37>	87	90	
D<18>	88	91	SLINK_UD<41>
SLINK_USF<3>	92	95	
SLINK_UD<32>	93	96	SLINK_UD<40>
D<19>	97	100	
SLINK_UD<33>	98	101	SLINK_UD<39>
D<20>	102	105	
SLINK_USF<2>	103	106	SLINK_UD<38>
SLINK_UD<34>	107	110	
D<21>	108	111	SLINK_UD<53>
SLINK_UD<35>	112	115	
D<22>	113	116	SLINK_UD<52>
SLINK_USF<1>	117	120	
SLINK_UD<46>	118	121	SLINK_UD<43>
D<23>	122	125	
SLINK_UD<47>	123	126	SLINK_UD<42>
SLINK_USF<0>	127	130	
SLINK_UD<45>	128	131	SLINK_UD<59>
D<24>	132	135	BE_J2_SPARE<0>
SLINK_UD<44>	133	136	SLINK_UD<58>
D<25>	137	140	BE_J2_SPARE<1>
SLINK_LFF#	138	141	SLINK_UD<63>
SLINK_UD<61>	142	145	BE_J2_SPARE<2>
D<26>	143	146	SLINK_UD<62>
SLINK_UD<60>	147	150	BE_J2_SPARE<3>
D<27>	148	151	SLINK_UD<57>
SLINK_LRL<3>	152	155	GND
SLINK_UD<49>	153	156	SLINK_UD<56>
D<28>	157	160	+5VIN
SLINK_UD<48>	158		
D<29>			
SLINK_LRL<2>			
SLINK_UD<50>			
D<30>			
SLINK_UD<51>			
D<31>			
SLINK_LRL<1>			
SLINK_UD<55>			
SLINK_UD<54>			

0402 R1203 2 100R 5%
TEST_CLK
TEST_CLK_B

0402 R1204 2 100R 5%
BE_J0_SPARE<0>
BE_J0_SPARE<1>

0402 R1205 2 100R 5%
BE_J0_SPARE<2>
BE_J0_SPARE<3>

0402 R1206 2 100R 5%
TEST_TRIG
TEST_TRIG_B

0402 R1211 2 100R 5%
VME_J0_SPARE<0>
VME_J0_SPARE<1>

0402 R1212 2 100R 5%
SLINK_UD<10>
SLINK_UD<11>

0402 R1213 2 100R 5%
SLINK_UD<12>
SLINK_UD<13>

0402 R1214 2 100R 5%
SLINK_UD<45>
SLINK_UD<44>

0402 R1215 2 100R 5%
SLINK_UD<43>
SLINK_UD<42>

PLACE RESISTORS AT DESTINATION

ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
A	13-11-02	-----	S. TAGHAVIRAD	S. TAGHAVIRAD	S. TAGHAVIRAD	

USED ON CMS

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RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.

TITLE

PC3205M CIRCUIT

CMS TRACKER FED v1

CONNECTORS

A 2-TE-0070-020-11-A

TOTAL NO. OF SHEETS 95

A 2-TE-0070-020-11-A