



Certificate of Conformance number:				27316		Date:		6-Jun-14	
Customer name			MINDTECH						
Customer P.O. #			MT/Po/BLR/2014-15/666/4-6-2014						
PCB Part number		17-600541-122 REV A							
Applicable Standard		IPC-600-Class 2							
Invoice reference #		0419/2014-2015							
1)	Manufacturing Date Code			WK23 / YR 2014		Quantity		12 NO'S	
1)	Layer Count :	6L							
2)	PTH Copper Hole Thickness ( Microns)			Avg 20 microns, min 18 microns		IPC-600 Class 2		27-31 μ	
3)	PCB Thickness (Metal To Metal in mm)			Requirement	Tolerance +	Tolerance -	Actual Measured		
				2.360	0.160	0.160	2.390		
3) a)	MINIMUM LINE WIDTH			Requirement	Tolerance +	Tolerance -	Actual Measured		
				12 MIL	20.00%	20.00%	12 MIL		
3) b)	MINIMUM SPACING			Requirement	Tolerance +	Tolerance -	Actual Measured		
				8.647 MIL	20.00%	20.00%	8.647 MIL		
4)	SURFACE FINISH			TYPE	Thickness required	Reference	Thickness Actual	ROHS	
				Immersion Ni/Au	NI - 3 To 6 μ	IPC 4552	4.352	Yes	
					Au - 0.05 μ min		0.061		
5)	Material Requested			FR4 High Tg		Laminate used		EMC 827	
	Material Reference								
6)	TG Requested ( DEG)			170 Deg C		TG used (degrees)		170 DEG C	
7)	SOLDER MASK TYPE			PISM BLACK		Reference		BLACK	
8)	SOLDER MASK ADHESION TEST			Tape test-Passed					
9)	SOLDERABILITY TEST			Passed					
10)	SOLDER MASK REQUIREMENT			complete coverage and no Cu exposure				YES	
11)	Legend Color			White, No Serial Number					
12)	ELECTRICAL /BBT TEST			Passed					
13)	UL LOGO PRINTING			YES					
14)	Warpage value			Tolerance +	Tolerance -	Actual Measured			
				0.75%	0.75%	OK			
15)	Impedance Measured with coupon using TDR			Tolerance +	Tolerance -	-			
				10.00%	10.00%	-			

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16) Trace Copper thickness (microns)									
	Layer #	Customer requirement		Tolerance		Tol Ref	Actual Measured Finished	Ref #	
		Base	Finish	Positive	Negative				
	L1	12 $\mu$	35 $\mu$	No value	0 $\mu$	IPC-600 Class 2	40 $\mu$		
	L2-L3	35 $\mu$	35 $\mu$	No value	24.9 $\mu$	IPC-600 Class 2	35 $\mu$		
	L4-L5	35 $\mu$	35 $\mu$	No value	24.9 $\mu$	IPC-600 Class 2	35 $\mu$		
	L6	12 $\mu$	35 $\mu$	No value	0 $\mu$	IPC-600 Class 2	40 $\mu$		
17) Drill Diameter information									
Tool No.	Size in mm	No. of holes	PTH / NPTH	Tolerance +	Tolerance -	Tol Ref	Actual Measured		
1	0.304	2	PTH	0.0760	0.0760	IPC-600 Class 2	-		
2	0.508	9	PTH	0.0760	0.0760	IPC-600 Class 2	-		
3	1.000	6	PTH	0.0760	0.0760	IPC-600 Class 2	1.020		
4	1.016	108	PTH	0.0760	0.0760	IPC-600 Class 2	1.020		
5	1.050	32	PTH	0.0760	0.0760	IPC-600 Class 2	1.070		
6	1.400	36	PTH	0.0500	0.0500	IPC-600 Class 2	1.420		
7	2.400	4	PTH	0.0500	0.0500	IPC-600 Class 2	2.450		
8	6.831	4	PTH	0.1016	0.0000	IPC-600 Class 2	6.900		
18) DIMENSION WITH TOLERANCE (MM)				Required	Tolerance +	Tolerance -	Tolerance Ref	Measured	
				68.00	0.20	0.20	IPC-600 Class 2	68.13	
				116.33	0.20	0.20	IPC-600 Class 2	116.39	
We confirm all PCB's shipped herewith are in conformance with all your specificatons , requirements , drawings , order and in conformance with IPC standards . <b>THESE BOARDS ARE ROHS COMPLIANT BOARDS.</b>									
Certified by									
Signature									