

# Reliability and Coherence Test Report

Group: A, B, C

**Product:** 24 bit Stereo Audio CODEC V4220M

**Inspection Lot:** J4263

**Manufacturer:** Coolaudio Semiconductor

# Test Report of Group A

Part Number		V4220M		Inspection lot		J4263		
Tests	Parameter	Inspection requirements				Test Results		Remarks
		AQL	Quantity	Requirements		Total Fails	Result	
				AC	RE			
A1	Appearance	0.40	500	5	6	0	Pass	
A2	Function	0.10	500	1	2	0	Pass	
A3	Quiescent Test	0.25	500	3	4	0	Pass	
A4	Dynamic Test	0.65	80	1	2	0	Pass	
	Total							42642
Results:			Fail:					
Pass			None					
Maker	Bian Wangdi		Audit	Miao Liuyan	Date	2008.9.6		

## Test Report of Group B

Part Number		V4220M		Inspection lot		J4263					
Tests	Parameter	Inspection requirements			Test Results		Remarks				
		LTPD%	Quantity	Pass	Total Fails	Result					
B1	Appearance	15	25	C * 1	0	Pass					
B4	Solderability										
B5	Fast temperature change Fast wet change	10	38	C * 1	0	Pass					
B8	Electric durability	10	38	C * 1	0	Pass					
B9	High-Temperature storage	15	25	C * 1	0	Pass					
B21	High-pressure steam	20	18	C * 1	0	Pass					
CRRL	Groups		B5	B8	B9	B21					
	Quantity		38	38	25	18					
	Total Fails		0	0	0	0					
Results:		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">Pass</td> <td style="width: 50%; text-align: center;">Fail:</td> </tr> <tr> <td style="width: 50%; text-align: center;">Pass</td> <td style="width: 50%; text-align: center;">None</td> </tr> </table>						Pass	Fail:	Pass	None
Pass	Fail:										
Pass	None										
Maker	Bian Wangdi	Audit	Miao Liuyan	Date	2008.9.13						

# Test Report of Group C

Part Number		V4220M		Inspection lot			J4263	
Tests	Parameter	Inspection requirements			Test Results		Remarks	
		LTPD%	Quantity	Pass	Total Fails	Result		
C1	Appearance	15	25	C * 1				
C3	Lead Strength							
C4	Solder Resistance							
C7	Temperature-Humidity test	15	25	C * 1		0	Pass	
C8	Electric durability	5	77	C * 1		0	Pass	
C9	High-Temperature storage	15	25	C * 1		0	Pass	
C11	Marking Performance	0	0			0	Pass	
CRRL	Groups			C7	C8	C9		
	Quantity			25	77	25		
	Total Fails			0	0	0		
Results:				Fail:				
Pass				None				
Maker	Bian Wangdi	Audit	Miao Liuyan	Date	2008.10.25			

# Group A1 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	500
Parameter	Appearance				
Results	Pass	Fail			
	500	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.6	Temperature and Humidity	23°C47%RH
Before testing	Tested by		After testing	Tested by	
	Noted by			Noted by	
	Temperature and Humidity			Temperature and Humidity	
	Date			Date	
Testing equipment	Type	Name	Serial Number		
	J750	Testing instrument	RT20213		
Remark					

# Group A2 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	500
Parameter	Function				
Results	Pass	Fail			
	500	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.6	Temperature and Humidity	23°C47%RH
Before testing	Tested by		After testing	Tested by	
	Noted by			Noted by	
	Temperature and Humidity			Temperature and Humidity	
	Date			Date	
Testing equipment	Type	Name	Serial Number		
	J750	Testing instrument	RT20213		
Remark					

# Group A3 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	500
Parameter	Quiescent Characteristics				
Results	Pass	Fail			
	500	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.6	Temperature and Humidity	23°C47%RH
Before testing	Tested by		After testing	Tested by	
	Noted by			Noted by	
	Temperature and Humidity			Temperature and Humidity	
	Date			Date	
Testing equipment	Type	Name	Serial Number		
	J750	IC Testing instrument	RT20213		
Remark					

# Group A4 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	80
Parameter	Dynamic Characteristics				
Results	Pass	Fail			
	80	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.6	Temperature and Humidity	23°C47%RH
Before testing	Tested by		After testing	Tested by	
	Noted by			Noted by	
	Temperature and Humidity			Temperature and Humidity	
	Date			Date	
Testing equipment	Type	Name	Serial Number		
	J750	Testing instrument	RT20213		
Remark					



# Group B1 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	25
Parameter	According to the product criterion				
Results	Pass	Fail			
	25	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH
Before testing	Tested by		After testing	Tested by	
	Noted by			Noted by	
	Temperature and Humidity			Temperature and Humidity	
	Date			Date	
Testing equipment	Type	Name	Serial Number		
		Vernier Caliper	LS14496		
Remark					

# Group B5 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	38		
Parameter	-10-70°C.30?30?10 times 85°C.85%RH.24H.						
Results	Pass	Fail					
	38	0					
Test Results	Pass						
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH		
Before testing	Tested by	Bian Wangdi		After testing	Tested by	Bian Wangdi	
	Noted by	Bian Wangdi			Noted by	Bian Wangdi	
	Temperature and Humidity	23°C47%RH			Temperature and Humidity	25°C48%RH	
	Date	2008.9.6			Date	2008.9.13	
Testing equipment	TSC-10	Cold and hot strike testing box		TT23006			
	THS-A	The instrument for testing the endurance of wet		TK01003			
	J750	Testing instrument		RT20213			
Remark							

# Group B8 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	38
Parameter	85°C,168H				
Results	Pass	Fail			
	38	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH
Before testing	Tested by	Bian Wangdi		Tested by	Bian Wangdi
	Noted by	Bian Wangdi		Noted by	Bian Wangdi
	Temperature and Humidity	23°C47%RH		Temperature and Humidity	25°C48%RH
	Date	2008.9.6		Date	2008.9.13
Testing equipment	PS-222	Oven	TT22136		
	J750	Testing instrument	RT20213		
Remark					

# Group B9 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	25		
Parameter	150°C,168H						
Results	Pass	Fail					
	25	0					
Test Results	Pass						
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH		
Before testing	Tested by	Bian Wangdi		After testing	Tested by	Bian Wangdi	
	Noted by	Bian Wangdi			Noted by	Bian Wangdi	
	Temperature and Humidity	23°C47%RH			Temperature and Humidity	25°C48%RH	
	Date	2008.9.6			Date	2008.9.13	
Testing equipment	PS-222	Oven	TT27108				
	J750	Testing instrument	RT20213				
Remark							

# Group B21 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	18		
Parameter	0.2MPA.16H.						
Results	Pass	Fail					
	18	0					
Test Results	Pass						
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH		
Before testing	Tested by	Bian Wangdi		After testing	Tested by	Bian Wangdi	
	Noted by	Bian Wangdi			Noted by	Bian Wangdi	
	Temperature and Humidity	23°C47%RH			Temperature and Humidity	25°C48%RH	
	Date	2008.9.6			Date	2008.9.13	
Testing equipment	PCT-S	Add press with steam	TT27108				
	J750	Testing instrument	RT20213				
Remark							

# Group C1 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	25		
Parameter							
Results	Pass	Fail					
	25	0					
Test Results	Pass						
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH		
Before testing	Tested by	Bian Wangdi		After testing	Tested by	Bian Wangdi	
	Noted by	Bian Wangdi			Noted by	Bian Wangdi	
	Temperature and Humidity	23°C47%RH			Temperature and Humidity	25°C48%RH	
	Date	2008.9.6			Date	2008.10.18	
Testing equipment		Vernier Caliper	LS14496				
Remark							

# Group C7 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	25		
Parameter	85°C.85%RH.1000H.						
Results	Pass	Fail					
	25	0					
Test Results	Pass						
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH		
Before testing	Tested by	Bian Wangdi		After testing	Tested by	Bian Wangdi	
	Noted by	Bian Wangdi			Noted by	Bian Wangdi	
	Temperature and Humidity	23°C47%RH			Temperature and Humidity	25°C48%RH	
	Date	2008.9.6			Date	2008.10.13	
Testing equipment	THS-A	The instrument for testing the endurance		TK01003			
	J750	Testing instrument		RT20213			
Remark							

# Group C8 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	77
Parameter	85°C.1000H.				
Results	Pass	Fail			
	77	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH
Before testing	Tested by	Bian Wangdi		Tested by	Bian Wangdi
	Noted by	Bian Wangdi		Noted by	Bian Wangdi
	Temperature and Humidity	23°C47%RH		Temperature and Humidity	25°C48%RH
	Date	2008.9.6		Date	2008.10.13
Testing equipment		Oven	TT22163		
	J750	Testing instrument	RT20213		
Remark					



# Group C9 test report

Part Number	V4220M	Inspection lot	J4263	Quantity	25
Parameter	150°C.1000H.				
Results	Pass	Fail			
	25	0			
Test Results	Pass				
Maker	Bian Wangdi	Date	2008.9.13	Temperature and Humidity	25°C48%RH
Before testing	Tested by	Bian Wangdi		Tested by	Bian Wangdi
	Noted by	Bian Wangdi		Noted by	Bian Wangdi
	Temperature and Humidity	23°C47%RH		Temperature and Humidity	25°C48%RH
	Date	2008.9.6		Date	2008.10.13
Testing equipment		Oven	TT27108		
	J750	Testing instrument	RT20213		
Remark					