PCN Number:			20130627000					PCN Date:		09/03/2013		
Title: DMD Passivation Change - Catalog												
Customer Dlp-pcn- Contact: team@list			t.ti.com			Phone	e:	+1(214)567-4	Dept:	DLP® Quality		
Proposed 1 st Ship Da			te: 10/03/2013			13						
Change	Тур	e:										
☐ Assembly Site			Assembly Process			Assembly	Assembly Materials					
Design]	Electrical Specification			Mechanic	Mechanical Specification				
☐ Test Site				Packing/Shipping/Labeling 1			Test Proc	Test Process				
☐ Wafer Bump Site]					Wafer Bump Process			
□ Wafe	er F	ab Site		Wafer Fab Materials V			Wafer Fal	b Pro	cess			
PCN Details												
Descript	Description of Change:											
TI is changing the proprietary material used in the DMD Passivation process. Passivation is a special atmosphere/coating to cover the mirror surfaces to make the mirrors function properly.												
Reason for Change:												
This cha	This change is part of TI's proactive chemical use policy and product improvements.											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):												
None												
Changes to product identification resulting from this PCN:												
Part number will be changed as follows: From: DLP5500AFYA To: DLP5500BFYA												
Product Affected:												
DLP5500AFYA												

Qualification Data:

		Constitution of the consti
Qualification:	Plan	☐ Test Results

Tests	<u>Conditions</u>	Read points	Sample Size	<u>Results</u>
A Life Test:		-	-	
1. Combo pattern (1/1 duty cycle)	95 ℃	500 hours	24	Pass
2. Reliability Life (5/95 duty cycle)	75 ℃	500 hours	24	Pass
3. Precondition Reliability Life			24	Pass
(a) Unbiased Humidity	110°C/85%RH	500 hours		
(b) Reliability Life (5/95 duty cycle	e) 75°C	500 hours		
4. Projector Life	All black	1000 hours	9	Pass
5. Precondition Projector Life			9	Pass
(a) Unbiased Humidity	110°C/85%RH	500 hours		
(b) Projector Life	All black	500 hours		
6. Stiction Life (50/50 duty cycle)	0 °C	500 hours	24	Pass

B Environmental Tests:				
 Storage Life 	125°C	500 hours	30	Pass
Temperature Cycling	-55°C/125°C	1000 cycles	77	Pass
3. Mechanical Stress Sequence:			32	Pass
(a) Electrical test				
(b) Mechanical shock	1500 g, 0.5 ms, 6 axis	•		
(c) Vibration	20g, 20-2000 Hz, All p	olanes (X,Y,Z)		
(d) Acceleration	10 Kg, Y1 plane only			
(e) Electrical test				
4. Thermal Stress Sequence:			32	Pass
(a) Electrical test				
(b) Thermal Shock	-55°C/125°C	15 cycles		
(c) Temp. Cycle	-55°C/125°C	100 cycles		
(d) Moisture Resistance		10 days		
(e) Electrical test	D. LIDIA	2000/	•	_
5. ESD, (bias/reset pins exclude		2000V	9	Pass
6. Latch Up	25°C, +/-200m		9	Pass
7. Unbiased Humidity	110°C/85%RH	500 hours	27	Pass
C Impropries Tools				
<u>C Inspection Tests:</u> 1. Physical Dimensions			10	Pass
Internal Water Vapor			10	Pass
3. Window Pull	10	Pass		
4. Wire Bond Pull	10	Pass		
D Others:			10	1 433
1. Image Quality			30	Pass
2. Optical Performance			30	Pass
- I				

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
DLP PCN Team	DLP-PCN-team@list.ti.com
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com