

PCN Number:	20150630000	PCN Date:	09/15/2015
Title:	.47 1080p Miho Fab Transfer		
Customer Contact:	Dlp-pcn-team@list.ti.com	Dept:	DLP® Products CQE
Proposed 1st Ship Date:	09/29/2015	Estimated Sample Availability:	07/10/2015
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process
PCN Details			
Description of Change:			
This change is to add TI Miho fab as second source CMOS supplier for .47 1080p TRP DMD's.			
Reason for Change:			
The change is to qualify a second source factory for .47 1080p DMDs. Second source provides supply assurance in case of capacity constraints.			
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
None			
Changes to product identification resulting from this PCN:			
Current package marking			
Chip site code (20L)		Chip country code (21L)	
DM5		USA	
New package marking (either option)			
Chip site code (20L)		Chip country code (21L)	
MH8		JPN	
DM5		USA	
Product Affected:			
1019-503BM, DLP4710FQL			

Qualification Plan

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule: **Start:** 07/10/2015 **End:** 09/09/2015

Test	Conditions	Read Points	Required Minimum Sample Size (total # divided by three lots)	Results
A. Life Test: *				
High Temp Operating Life	95°C, 500hr or equivalent	500 hours	40	Pass
Nominal Operating Life w/o Precondition	70°C, 670hr or equivalent	500 hours	40	QBS ⁽¹⁾
Preconditioning + Nominal Operating Life:				
(a) Precondition	UBH 110°C/85%RH, 500hr	500 hours	40	QBS ⁽¹⁾
(b) Nominal Operating Life	70°C, 670hr or equivalent	500 hours		
Low Temp Operating Life	-10°C, 500hr or equivalent	500 hours	40	QBS ⁽¹⁾
Projector Life w/o Precondition	Ambient Temperature, 1000hr or equivalent	1000 hours	9	QBS ⁽²⁾
Preconditioning + Projector Life				
(a) Precondition	UBH 110°C/85%RH, 500hr	500 hours	9	QBS ⁽¹⁾
(b) Projector Life	Ambient Temperature, 500hr or equivalent	500 hours		
B. Environmental Tests: *				
High Temp Storage Life	125°C, 500hr or equivalent	500 hours	30	Pass
Temperature Cycling	0°C/+100°C 1000cycles	1000 cycles	77	QBS ⁽¹⁾
Unbiased HAST	UBH 110°C/85%RH, 500hr	500 hours	27	Pass
ESD	RT, HBM per Data Sheet	per Data Sheet	9	Pass
Latch Up	RT	+/-100mA	9	Pass
Mechanical Stress Sequence				
(a) Electrical Test			32	QBS ⁽¹⁾
(b) Mechanical Shock	1500g, 0.5ms, 6axis, 5 pulses			
(c) Vibration	20g, 20-2000Hz, All planes (x, y, z)			
(d) Acceleration	10Kg, Y1 plane only			
(e) Electrical Test				

Thermal Stress Sequence			
(a) Electrical Test			
(b) Thermal Shock	0°C/+100°C, 15 cycles		
(c) Temp. Cycle	0°C/+100°C, 100 cycles		
(d) Moisture Resistance	10 days		
(e) Electrical Test			
		32	QBS ⁽¹⁾
C. Inspection Tests:			
Physical Dimensions		10	Pass
Internal Water Vapor		10	Pass
Window Pull		10	QBS ⁽¹⁾
Bond Strength		9	Pass
D. Others:			
Image Quality		30	Pass
Optical Performance		30	Pass
* Any conditions beyond the Recommended Operating Conditions listed in the Datasheet are run at accelerated test conditions.			
⁽¹⁾ Note: QBSed to the .47 1080p subLVDS MTRP S312 New Device Qualification			
⁽²⁾ Note: QBSed to the .3 720p subLVDS MTRP S245 New Device Qualification			

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
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com