




1	5	2513430	REFLECTIVE ILLUMINATION MODULE	OPTIONAL MODULE
1	4	2513373	MAIN MODULE COVER	
7	3	SCREW M2.5 x 0.45 x 6.0LG SHCS	SCREW M2.5 x 0.45 x 6.0LG SHCS	
1	2	2513354	ILLUMINATION MODULE ASSEMBLY	INCLUDED MODULE
1	1	2513353	CORE ASSEMBLY - DLP SPECTRA EVM	
QTY	ITEM	PART NUMBER	DESCRIPTION	Notes
Part List				

THIRD ANGLE
PROJECTION

		<div>UNLESS OTHERWISE SPECIFIED</div> <ul style="list-style-type: none">DIMENSIONS ARE IN MILLIMETERSTOLERANCES: ANGLES ±1°<div>2 PLACE DECIMALS ±0.25</div><div>1 PLACE DECIMALS ±0.50</div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSESINTERPRET DIMENSIONS IN ACCORDANCE WITH ASME Y14.5M-1994REMOVE ALL BURRS AND SHARP EDGESPARENTHETICAL INFO FOR REF ONLY	<div>DWN R ROWE</div> <div>DATE 9/14/2013</div>	<div>TEXAS INSTRUMENTS</div> <div>TOP LEVEL ASSY - DLP SPECTRA EVM - S241 DMD</div>		
			Engr			
			CQE/QA			
			CM			
NEXT ASSY	USED ON	APPLICATION	<div>Apprvd</div>	<div>SIZE DWG NO</div> <div>B2513352</div>	<div>REV</div> <div>E</div>	
			<div>SCALE 0.85:1</div>	<div>SHEET 1 OF 3</div>		

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DWG NO

SHEET 2

1

D

1	874381043	
1	CONNECTOR, MOLEX - 874381043	CONNECTOR, MOLEX - 874381043
1	CONNECTOR - MALE - JST S 4B-EH	CONNECTOR - MALE - JST S 4B-EH
1	2513367	PCB MECHANICAL SPECIFICATIONS - DETECTOR PCB
1	2513367	PCB MECHANICAL SPECIFICATIONS - DETECTOR PCB
2	SCREW 6-32 x .25 LG PHP	SCREW 6-32 x .25 LG PHP
2	2513415	SHIM, DETECTOR ADJUST, .50MM
4	2513414	SHIM, DETECTOR ADJUST, .25MM
1	2513416	HEATSINK, DETECTOR
1	InGaAs DETECTOR	InGaAs DETECTOR
1	SKELETON LAYOUT - DETECTOR ASSY	SKELETON LAYOUT - DETECTOR ASSY
1	2513361	DETECTOR MODULE ASSEMBLY
2	DOWEL PIN 3MM DIA X 6MM LG	DOWEL PIN 3MM DIA X 6MM LG
1	2513372	HOUSING L3, L4, L5
1	2513372	HOUSING, L3, L4, L5
1	2513412	RETAINING RING, L3
2	SCREW M2.5 x 0.45 x 6.0LG SHCS	SCREW M2.5 x 0.45 x 6.0LG SHCS
1	2513411	DETECTOR MOUNTING PLATE
1	2513410	RETAINING RING, L5
1	2513409	RETAINING RING, L4
1	60126P41004-REVA	LENS 4
1	60126P41003-REVA	LENS 3
1	60126P41005	LENS 5
1	2513360	LENS 3-4-5 MODULE ASSEMBLY
1	2513404	RETAINING RING L2
1	60126P41002-REVA	LENS 2
1	2513370	HOUSING L2
1	2513357	LENS 2 MODULE ASSEMBLY
4	SCREW M1.6 x 0.35 x 4.0LG SHCS	SCREW M1.6 x 0.35 x 4.0LG SHCS
1	2513400	GRATING RETAINING SPRING
1	2513398	HOUSING, GRATING
1	2513399	GRATING
1	2513358	GRATING MODULE ASSEMBLY
2	Parallel Pin ISO 8734 - 2 x 6 - A - St	
1	2513368	HOUSING L1
1	2513368	HOUSING, L1
4	92005A011	PHILLIPS HEAD, M2 X 3.00 LG
1	2513393	FILTER RETAINER SPRING
1	2513394	FILTER, IR BANDPASS
1	2513374	FILTER FRAME
1	2513401	FILTER MOUNT ASSEMBLY
5	SCREW M1.6 x 0.35 x 4.0LG SHCS	SCREW M1.6 x 0.35 x 4.0LG SHCS
1	2513402	APERTURE
1	2513390	RETAINING RING L1
1	60126P41001-REVA	LENS 1
1	2513356	LENS 1 MODULE ASSEMBLY
2	DOWEL PIN 1MM DIA X 6MM LG	DOWEL PIN 1MM DIA X 6MM LG
1	2513378	SLIT RETAINER B
1	2513378	SLIT RETAINER B (WITH DOWELS)
1	2513377	SLIT RETAINER A
3	SCREW M1.6 x 0.35 x 3.0LG SHCS	SCREW M1.6 x 0.35 x 3.0LG SHCS
2	SCREW M2.5 x 0.45 x 8.0LG SHCS	SCREW M2.5 x 0.45 x 8.0LG SHCS
1	DOWEL PIN 1MM DIA X 10MM LG	DOWEL PIN 1MM DIA X 10MM LG
2	DOWEL PIN 1MM DIA X 6MM LG	DOWEL PIN 1MM DIA X 6MM LG
1	2513379	SLIT RETAINER MOUNTING BRACKET - FAB
1	2513380	SLIT RETAINER MOUNTING BRACKET - ASSY
1	2513381	SLIT DISK, .050MM
1	2513355	OPTICAL SLIT MODULE ASSEMBLY
15	DOWEL PIN 3MM DIA X 6MM LG	DOWEL PIN 3MM DIA X 6MM LG
1	2513375	BASE PLATE
1	2513376	BASE PLATE ASSY
1	2513353	CORE ASSEMBLY - DLP SPECTRA EVM
QTY	PART NUMBER	DESCRIPTION
Part List		

C

1	2513389	RETAINING RING, CL2
1	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513388	HOUSING, CL2
1	SET SCREW, 2.5MM X 4.0MM LG	SET SCREW, 2.5MM X 4.0MM LG
1	LAMP - REFLECTIVE MODULE	LAMP, REFLECTIVE MODULE
1	2513436	REFLECTIVE SYSTEM HOUSING
1	SAPPHIRE WINDOW	SAPPHIRE WINDOW, 12.7MM DIA x 1MM THK
1	2513430	REFLECTIVE ILLUMINATION MODULE
1	2513373	MAIN MODULE COVER
7	SCREW M2.5 x 0.45 x 6.0LG SHCS	SCREW M2.5 x 0.45 x 6.0LG SHCS
1	SCREW M2.5 x 0.45 x 25mm LG SHCS	SCREW M2.5 x 0.45 x 25mm LG SHCS
1	SCREW M1.6 x 0.35 x 4.0LG SHCS	SCREW M1.6 x 0.35 x 4.0LG SHCS
2	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513383	LAMP FOCUS RING
1	2513385	RETAINER RING, CL1
1	2513384	HOUSING, CL1
1	2513389	RETAINING RING, CL2
1	2513388	HOUSING, CL2
1	2513382	LAMP SOURCE HOUSING
1	2513386	CUVETTE HOLDER
1	IR LAMP	IR LAMP
1	2513354	ILLUMINATION MODULE ASSEMBLY
2	93620A434	STANDOFF, .250HEX 4-40 X .75IN MF - MC 93620A434
1	CONNECTOR, 2 PIN, RA	CONNECTOR. 2PIN, RA
1	CAPACITOR CAN	CAPACITOR CAN
13	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	TRIM POT - BOURNS 3266W	TRIM POT - BOURNS 3266W
1	CONNECTOR, 4 PIN RA _ JST-S4B-EH	CONNECTOR, 4 PIN RA
10	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
2	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437
2	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729
4	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717
1	CONNECTOR - AXT580124	CONNECTOR - AXT580124
1	ERM5-XXX-XX.X-DV-XX_-02 30 pos	
80	T-1M59-XX.X-X_-02.0	
1	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K
1	ERF5-040-01-X-D-RA_21	
1	ERF5-040-01-X-D-RA_19	
1	ERF5-040-01-X-D-RA_11	
1	ERF5-040-01-X-D-RA_25	
1	ERF5-040-01-X-D-RA_15	
1	ERF5-040-01-X-D-RA_18	
1	ERF5-040-01-X-D-RA_22	
1	ERF5-040-01-X-D-RA_17	
1	ERF5-040-01-X-D-RA_3	
1	ERF5-040-01-X-D-RA_23	
1	ERF5-040-01-X-D-RA_8	
1	ERF5-040-01-X-D-RA_6	
1	ERF5-040-01-X-D-RA_9	
1	ERF5-040-01-X-D-RA_16	
1	ERF5-040-01-X-D-RA_5	
QTY	PART NUMBER	DESCRIPTION
Part List		

B

1	2513389	RETAINING RING, CL2
1	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513388	HOUSING, CL2
1	SET SCREW, 2.5MM X 4.0MM LG	SET SCREW, 2.5MM X 4.0MM LG
1	LAMP - REFLECTIVE MODULE	LAMP, REFLECTIVE MODULE
1	2513436	REFLECTIVE SYSTEM HOUSING
1	SAPPHIRE WINDOW	SAPPHIRE WINDOW, 12.7MM DIA x 1MM THK
1	2513430	REFLECTIVE ILLUMINATION MODULE
1	2513373	MAIN MODULE COVER
7	SCREW M2.5 x 0.45 x 6.0LG SHCS	SCREW M2.5 x 0.45 x 6.0LG SHCS
1	SCREW M2.5 x 0.45 x 25mm LG SHCS	SCREW M2.5 x 0.45 x 25mm LG SHCS
1	SCREW M1.6 x 0.35 x 4.0LG SHCS	SCREW M1.6 x 0.35 x 4.0LG SHCS
2	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513383	LAMP FOCUS RING
1	2513385	RETAINER RING, CL1
1	2513384	HOUSING, CL1
1	2513389	RETAINING RING, CL2
1	2513388	HOUSING, CL2
1	2513382	LAMP SOURCE HOUSING
1	2513386	CUVETTE HOLDER
1	IR LAMP	IR LAMP
1	2513354	ILLUMINATION MODULE ASSEMBLY
2	93620A434	STANDOFF, .250HEX 4-40 X .75IN MF - MC 93620A434
1	CONNECTOR, 2 PIN, RA	CONNECTOR. 2PIN, RA
1	CAPACITOR CAN	CAPACITOR CAN
13	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	TRIM POT - BOURNS 3266W	TRIM POT - BOURNS 3266W
1	CONNECTOR, 4 PIN RA _ JST-S4B-EH	CONNECTOR, 4 PIN RA
10	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
2	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437
2	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729
4	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717
1	CONNECTOR - AXT580124	CONNECTOR - AXT580124
1	ERM5-XXX-XX.X-DV-XX_-02 30 pos	
80	T-1M59-XX.X-X_-02.0	
1	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K
1	ERF5-040-01-X-D-RA_21	
1	ERF5-040-01-X-D-RA_19	
1	ERF5-040-01-X-D-RA_11	
1	ERF5-040-01-X-D-RA_25	
1	ERF5-040-01-X-D-RA_15	
1	ERF5-040-01-X-D-RA_18	
1	ERF5-040-01-X-D-RA_22	
1	ERF5-040-01-X-D-RA_17	
1	ERF5-040-01-X-D-RA_3	
1	ERF5-040-01-X-D-RA_23	
1	ERF5-040-01-X-D-RA_8	
1	ERF5-040-01-X-D-RA_6	
1	ERF5-040-01-X-D-RA_9	
1	ERF5-040-01-X-D-RA_16	
1	ERF5-040-01-X-D-RA_5	
QTY	PART NUMBER	DESCRIPTION
Part List		

A

1	2513389	RETAINING RING, CL2
1	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513388	HOUSING, CL2
1	SET SCREW, 2.5MM X 4.0MM LG	SET SCREW, 2.5MM X 4.0MM LG
1	LAMP - REFLECTIVE MODULE	LAMP, REFLECTIVE MODULE
1	2513436	REFLECTIVE SYSTEM HOUSING
1	SAPPHIRE WINDOW	SAPPHIRE WINDOW, 12.7MM DIA x 1MM THK
1	2513430	REFLECTIVE ILLUMINATION MODULE
1	2513373	MAIN MODULE COVER
7	SCREW M2.5 x 0.45 x 6.0LG SHCS	SCREW M2.5 x 0.45 x 6.0LG SHCS
1	SCREW M2.5 x 0.45 x 25mm LG SHCS	SCREW M2.5 x 0.45 x 25mm LG SHCS
1	SCREW M1.6 x 0.35 x 4.0LG SHCS	SCREW M1.6 x 0.35 x 4.0LG SHCS
2	CONDENSER LENS	CONDENSER LENS - MELLES GRIOT LAG-15.0-12.0-C
1	2513383	LAMP FOCUS RING
1	2513385	RETAINER RING, CL1
1	2513384	HOUSING, CL1
1	2513389	RETAINING RING, CL2
1	2513388	HOUSING, CL2
1	2513382	LAMP SOURCE HOUSING
1	2513386	CUVETTE HOLDER
1	IR LAMP	IR LAMP
1	2513354	ILLUMINATION MODULE ASSEMBLY
2	93620A434	STANDOFF, .250HEX 4-40 X .75IN MF - MC 93620A434
1	CONNECTOR, 2 PIN, RA	CONNECTOR. 2PIN, RA
1	CAPACITOR CAN	CAPACITOR CAN
13	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	2513439	PCB MECH FORM FACTOR SPECIFICATIONS - LAMP DRIVER PCB
1	TRIM POT - BOURNS 3266W	TRIM POT - BOURNS 3266W
1	CONNECTOR, 4 PIN RA _ JST-S4B-EH	CONNECTOR, 4 PIN RA
10	HEADER PIN - SINGLE	HEADER PIN - SINGLE
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
1	2513438	PCB MECH FORM FACTOR SPECIFICATION - TEC DRIVER PCB
2	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437	STANDOFF, .250HEX 4-40 X 1.25IN MF - MC 93620A437
2	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729	STANDOFF, .250HEX 4-40 X .437IN MF - MC93620A729
4	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717	STANDOFF, .250HEX 4-40 X .312IN MF - 93620A717
1	CONNECTOR - AXT580124	CONNECTOR - AXT580124
1	ERM5-XXX-XX.X-DV-XX_-02 30 pos	
80	T-1M59-XX.X-X_-02.0	
1	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K	CONNECTOR - SAMTEC ERM5-040-04.0-X-DV-K
1	ERF5-040-01-X-D-RA_21	
1	ERF5-040-01-X-D-RA_19	
1	ERF5-040-01-X-D-RA_11	
1	ERF5-040-01-X-D-RA_25	
1	ERF5-040-01-X-D-RA_15	
1	ERF5-040-01-X-D-RA_18	
1	ERF5-040-01-X-D-RA_22	
1	ERF5-040-01-X-D-RA_17	
1	ERF5-040-01-X-D-RA_3	
1	ERF5-040-01-X-D-RA_23	
1	ERF5-040-01-X-D-RA_8	
1	ERF5-040-01-X-D-RA_6	
1	ERF5-040-01-X-D-RA_9	
1	ERF5-040-01-X-D-RA_16	
1	ERF5-040-01-X-D-RA_5	
QTY	PART NUMBER	DESCRIPTION
Part List		

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SW-2010a

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TEXAS INSTRUMENTS

DWN R ROWE

DATE 9/14/2013

SIZE B

DWG NO

SCALE 1:5

SHEET 2 OF 3

REV G

