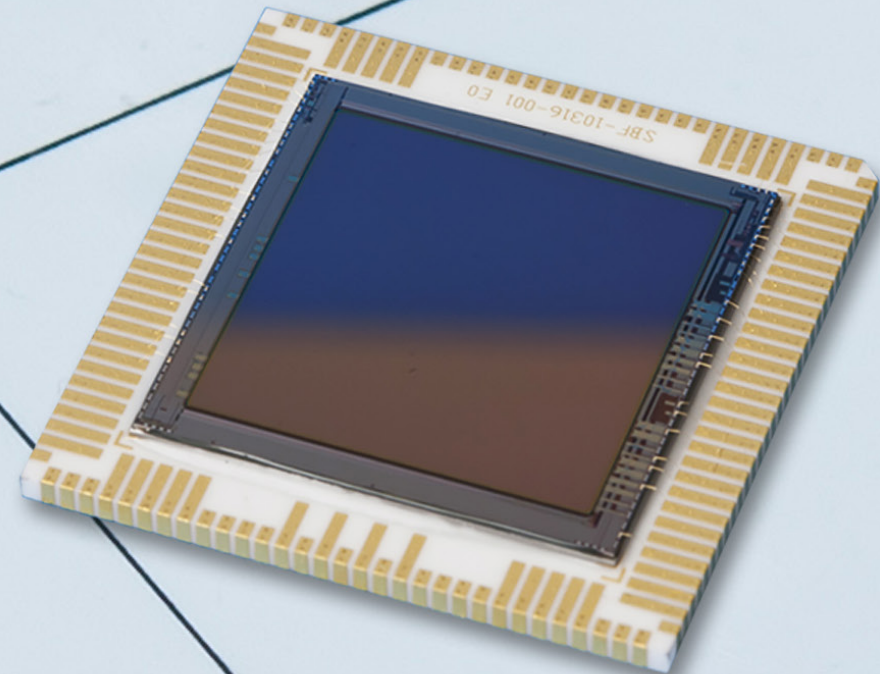




Santa Barbara Focalplane ROICs

Leading the Way in nBn and Digital Focal Plane Technology

Santa Barbara Focalplane ROICs

SPECIFICATIONS

Product #	Typical Waveband	Detector Type	Array Size		Pixel Pitch μm	Frame Rate Hz	Well Size	Read Noise e^-	Unit Cell Type	A/D Bit Depth bits	Video Output	Power mW
SBF			Col	Row								
204	SW or MW	p-on-n	1,280	1,024	12	114	50ke-	45	CTIA	13/14	1/2/4 LVDS	250
207	MW	p-on-n	1,280	1,024	12	114	2Me-	230	DI	13/14	1/2/4 LVDS	120
208	MW	p-on-n	1,024	1,024	25	60	10Me-	800	DI	13/14	2 LVDS	120
209	MW or LW	p-on-n	640	512	20	430	7Me-	500	DI	13/14	1/2/4 LVDS	100
214	MW	p-on-n	2,560	2,048	12.5	50	2Me-	230	DI	13/14	2/4/8 LVDS	175
224	MW	p-on-n	1,280	1,024	12	114	1.2Me-	200	DI	13/14	1/2/4 LVDS	130
234	MW or LW	p-on-n	1,280	1,024	8	370	1.8Me-	300	DI	12/13	4 CML	250
241	SW or MW	p-on-n	2,560	2,048	12.5	50	147ke-	50	CTA	13/14	2/4/8 LVDS	750
242	MW	p-on-n	640	512	8	1,000	500ke-	150	DI	12/13	4 CML	200
246	MW	p-on-n	2,048	2,048	8	120	228ke- / 912ke-	100 / 200	DI	12/13	4 CML	400
265	MW / MW	dual band sequential	1,280	1,024	12	400	2Me- / 4Me-	400 / 640	DI 2-Color Sequential	12/13	4 CML	300
272	MW / LW	dual band sequential	1,280	1,280	16	275	66Me- / 400Me-	400 / 3000	DI	18	4 CML	600
296	MW	p-on-n	1,280	1,024	12	400	2Me- / 4Me-	400 / 640	DI with Active Blanking	12/13	4 CML	300
302	LW	p-on-n (TDI)	544	105	30	21,600	35Me- / 52Me-	5000 / 7500	BDI-TDI	20	1 CML	400
315	LIDAR	n-on-p	32	32	100	500,000	2us RSI	500 ps	Async-Geiger Mode LIDAR	12	4 CML	2000
332	MW	p-on-n	2,048	2,048	12	120	1.15Me- / 2.3Me-	160 / 250	DI	13/14	4 CML	450
334 (1K)	SW or MW or LW	p-on-n	1,024	1,024	10	240	Non-HDR: 60ke / 600ke- HDR: 100Me-	25 / 112	CTIA with SPiHDR™	Non-HDR: 12 / 13 HDR: 19	2 CML	500
334 (2K)			2,048	2,048		120					4 CML	1250
334 (4K)			4,096	4,096		60					8 CML	4000
342	MW	p-on-n	640	640	12	840	2Me- / 4Me-	275 / 420	DI	12/13	2 CML	120
348 (2K)	SW / MW	dual band sequential	2,048	2,048	10	320	300ke- / 1.7Me-	100 / 250	Dual Band CTIA	12/13	8 CML	1300
348 (4K)			4,096	4,096		160					16 CML	3000
348 (6k)			6,144	6,144		106					24 CML	5500
336 (2K)	SW or MW or LW	p-on-n	2,048	2,048	10	320	Non-HDR: 60ke / 600ke- HDR: 400Me-	25 / 112	CTIA with SPiHDR™	Non-HDR: 12 / 13 HDR: 22	8 CML	1300
336 (4K)			4,096	4,096		160					16 CML	3000
336 (6K)			6,144	6,144		106					24 CML	5500

Contact Information: Lockheed Martin Corporation, Santa Barbara Focalplane
<https://www.lockheedmartin.com/en-us/who-we-are/business-areas/missiles-and-fire-control/santa-barbara.html>

Specifications based on design value

In Development

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