



DATASHEET

Multi-Channel Superluminescent Diode Source

Integrated Spectral Bench (ISB2)

Multi-SLED Light Source, 5 SLEDs: 1390nm, 1480nm, 1550nm, 1615nm, 1680nm, Free Space Fiber, High Degree of Polarization, Spectral Coverage: 1340nm-1725nm, FWHM: 385nm, CW: 1533nm, Light Output Power >100mW

Luxmux Part Number: ASM000819





A. PRODUCT DESCRIPTION

The Luxmux broadband multi-superluminescent diode source (Multi-SLED) ASM000819 combines five output beams as a single spectrum product. The system provides individual control of light sources through a digitally controlled interface. Individual SLED performance dashboards are provided for optimum set up calibration as required. The light source is integrated with a high-performance SLED driver and temperature control electronics in a rugged compact package. Power meters can be added for additional monitoring capability.

Luxmux's Spectral Stitching technique of integrating multiple wavelengths into a single broad spectrum is designed for optimum coupling efficiency into a single mode fiber. This brings exceptional flexibility and usability to the sensing marketplace. The Multi-SLED can be spectrally tailored to suit specific application needs and offer excellent back reflection immunity. This provides extremely high stability, making these sources ideal for the applications included below:

B. KEY FEATURES

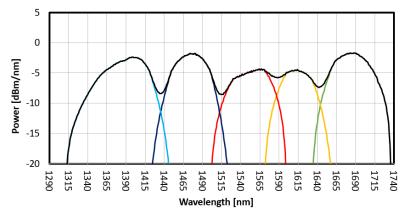
- Five superluminescent diodes (SLEDs)
- All SLEDs can be run from 0 100% of maximum rating
- Collimated output power: >100mW
- Bandwidth FWHM > 385nm, @10dB > 405nm
- Luxmux's patented technology for spectral stitching provides optimum power and bandwidth
- Multiple communication interfaces: USB, RS-232, Ethernet
- Each SLED comes with a built-in independent monitor photodiode and one

C. APPLICATIONS

- Optical Component Testing
- Telecom Test Equipment
- Medical Optical Coherence Tomography
- Industrial Optical Coherence Tomography
- Metrology

common thermoelectric cooler (TEC) for all SLEDs

- Internally optimized for maximum coupling efficiency with PM1550-XP Fiber
- Monolithic integration of a Broadband Dual Stage PMF Isolator (35dB)
- Light output: FC/APC Connector (Optional FC/PC or SMA)
- User friendly GUI and custom API available for test automation
- Biomedical Imaging Systems
- Optical Sensing
- White Light Interferometry & Chromatic Dispersion
- Research and Development









D. ABSOLUTE MAXIMUM RATINGS (see note 1)

Parameter	Symbol	Condition	Minimum	Maximum	Unit
D	RIVER POW	VER SUPPLY SPECIFICA	TIONS		
Input Power Supply Voltage	Vs	CW	10	14	V
Input Power Supply Current	ls	CW	5	-	А
	TEMPER	ATURE SPECIFICATIO	NS		
Case Temperature (see note 2)	T _{Case}		0	60	°C
Storage Temperature (see note 4)	T _{stg}	No condensation, Unbiased	-40	85	°C
Storage Humidity (see note 4)	RH _{stg}		5	85	%RH
Ambient Operating Temperature (See note 3)	Тор		0	50	°C

Notes:

1. Please note that exceeding the Absolute Maximum Ratings above may cause device failure. Luxmux does not bear responsibility for laser power damage that is attributed to electrostatic discharge, excessive current levels, and current spikes (transients).

Any attempts to increase the laser drive current above the pre-set limits or recommended specification limits, can damage the device, and nullify the warranty period. It should be emphasized that the current limit set points cannot be exceeded.

2. T_{Case} and T_{TEC} are monitored by internal thermistor with external readout.

3. For optimum performance of the Integrated Spectral Bench (ISB2), the ISB2 must be operated within the specified temperature ranges. The Multi-SLED® has an internal thermoelectric cooler (TEC) to remove heat from the light source and dissipate it through the ISB2 case. It is required to provide free air circulation around the ISB2 device. It is always recommended to cool down the unit with a fan, and/or to mount the ISB2 on an appropriate heatsink, capable of dissipating up to 15W. The thermal resistance between ISB2 metal case and heatsink can be minimized by applying thermal grease, thermal glue or thermal pad between the contact surfaces. When the Multi-SLED® is used without a heatsink, maximum ambient operating temperature is 35°C. The specification lists the operating temperature for the electrical/optical characteristics, which is the temperature of the ISB2 during the time that the specifications were measured. Variation in temperature beyond what is specified can have a significant effect on the optical characteristics, like changes in wavelength or drop in output power.

4. Storage temperature and relative humidity should be chosen so the dew point of the humid air around the package is below the storage temperature of the package, to avoid condensation inside the ISB2 enclosure.



E. OPTICAL AND ELECTRICAL SPECIFICATIONS (see note 5)

Parameter	Symbol	Condition	Minimum	Typical	Maximum	Unit
	DRIV	ER POWER SUPPLY	SPECIFICATIO	NS		
Input Power Supply Voltage	Vs	CW	10	12	14	V
Input Power Supply Current	ls	CW	5	-	-	А
Input Power Supply Voltage Ripple and Noise	γ	CW	-	-	200	mVpp
		OPTICAL SPECIF	ICATIONS			
Center Wavelength (see note 6) SLED 1 – 1680nm SLED 2 – 1615nm SLED 3 – 1550nm SLED 4 – 1480nm SLED 5 – 1390nm SLED 1+2+3+4+5 – 1533nm	CWL	CW Top = 25°C Ttec = 21°C Iop	1670 1605 1540 1470 1380 1523	1680 1615 1550 1480 1390 1533	1690 1625 1560 1490 1400 1543	nm
Free Space Output Power (see note 7) SLED 1 – 1680nm SLED 2 – 1615nm SLED 3 – 1550nm SLED 4 – 1480nm SLED 5 – 1390nm SLED 1+2+3+4+5 – 1533nm	Ρ	CW T _{OP} = 25°C T _{TEC} = 21°C I _{OP}	25 16 16 18 25 100	-	-	mW
Bandwidth FWHM (see note 8) SLED 1 – 1680nm SLED 2 – 1615nm SLED 3 – 1550nm SLED 4 – 1480nm SLED 5 – 1390nm SLED 1+2+3+4+5 – 1533nm	Вғwнм	CW T _{OP} = 25°C T _{TEC} = 21°C I _{OP}	-	75 50 60 50 65 385	-	nm
Bandwidth @ -10dB SLED 1 – 1680nm SLED 2 – 1615nm SLED 3 – 1550nm SLED 4 – 1480nm SLED 5 – 1390nm SLED 1+2+3+4+5 – 1533nm	B@10dB	CW Top = 25°C Ttec = 21°C Iop	-	90 75 90 80 90 405	-	nm
Spectrum Ripple (see note 9)	R	CW Top = 25°C T _{TEC} = 21°C Iop	< 0.15	< 0.30	< 0.45	dB

#LTC-ISB2-1390_1480_1550_1615_1680-FS-HP-1340_1725-385-1533-100_DS_2021_08_05

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Para	ameter	Symbol	Condition	Minimum	Typical	Maximum	Unit
Spectral Cove	erage	SC	CW T _{OP} = 25°C T _{TEC} = 21°C I _{OP}	-	1340 - 1725	-	nm
Polarization Extinction Ratio (see note 10) SLED 1 – 1680nm SLED 2 – 1615nm SLED 3 – 1550nm SLED 4 – 1480nm SLED 5 – 1390nm		PER	CW T _{OP} = 25°C T _{TEC} = 21°C I _{OP}	20.3 18.2 19.0 20.1 17.8	-	-	dB
RIN		RIN	CW Top = 25°C T _{TEC} = 21°C Iop	-	< -130	-	dB/Hz
Power Stabili warm up)	ty (After 1h	P _{STAB}	T _{OP} = 25°C <u>+</u> 2.5	-	< 0.1	-	dB
Beam Divergence	Parallel	$ heta_{ heta}$		-	0.95	-	mrad
(see note 11, 12)	Perpendicular	M^2_{II}	C 111	-	0.94	-	mau
M^2	Parallel	M^2 .	CW T _{OP} = 25°C	-	1.5	-	
	Perpendicular	D_{II}	T _{TEC} = 21°C I _{OP}	-	1.7	-	
Minimum Beam	Parallel	D		-	1.51	-	~~~~
Diameter (see note 13)	Perpendicular	θ.		-	1.76	-	mm
Warmup Tim	e	W	CW T _{OP} = 25°C T _{TEC} = 21°C I _{OP}	15	30	60	Min.
		C	CONSTANT CURRE	NT MODE			
Operating Cu SLED 1 – 168 SLED 2 – 161 SLED 3 – 1550 SLED 4 – 1480 SLED 5 – 1390	0nm 5nm 0nm 0nm	I _{OP}	CW Top = 25°C T _{TEC} = 21°C Iop	-	-	400 300 500 350 400	mA
Current Setti	ng Resolution	R _{IOP_SET}		-	-	0.1	mA
SLED Current Resolution	Reading	R _{IOP_READ}		-	0.1	-	mA
			MODULATION	MODE	-		
Waveform				-	Square	-	
Modulation F Range	Frequency	f_{mod}		0.016	-	1000	Hz
Duty Cycle		D		10	50	90	%

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Parameter	Symbol	Condition	Minimum	Typical	Maximum	Unit
	•	INTERNAL MON		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Monitor Diode Current						
Reading	I _{mon}		-	-	500	uA
Monitor Diode Current	RESImon		_	7.6	_	nA
Reading Resolution	NL Jimon			7.0		114
	1	LIGHT OUTPUT O	CONNECTOR	1	1	
Type of Fiber Connector			-	FC/PC, FC/APC, SMA	-	
		SLED TEC SPECI	FICATIONS			
SLED TEC Temperature Setpoint	T _{SLED_SET}		0	-	40	°C
SLED TEC Temperature Setpoint Resolution	R _{TSLED_SET}		-	0.1	-	°C
SLED TEC Temperature Reading	T _{SLED_READ}		-40	-	100	°C
SLED TEC Temperature Reading Resolution	R _{TSLED}		-	0.1	-	°C
	Т	EMPERATURE SP	ECIFICATIONS	;	<u>L</u>	L
Heatsink Temperature Reading Range	T _{HS}		-40	-	100	°C
Heatsink Temperature Reading Resolution	R _{THS}		-	0.1	-	°C
		POWER N	IETER		I	
Spectral Response Range	λ _{ΡΜ}	-	900	-	1870	nm
Photosensitive Area	A _{PM}		-	Φ1	-	mm
Power Meter Current Reading	Р _{РМ}		50	-	-	uA
Peak Sensitivity Wavelength	λp		-	1750	-	nm
Photo Sensitivity	S	λ= λρ	0.9	1.1	-	A/W
Typical Dark Current	Ι _D			1	10	nA
Detectivity	D*	λ= λρ	2 x 10 ¹²	5.5 x 10 ¹²	-	cm*Hz ^{1/2} /W
Noise Equivalent Power	NEP	λ= λρ	-	1.5 x 10 ⁻ 14	4 x 10 ⁻¹⁴	W/Hz ^{1/2}
	PO	WER METER TEC	SPECIFICATIO	NS		
Power Meter TEC Temperature Setpoint	T _{PM_SET}		-20	-	40	°C
Power Meter TEC Temperature Setpoint Resolution	R _{TPM_SET}		-	0.1	-	°C
Power Meter TEC Temperature Reading	T _{PM_READ}		-40	-	85	°C



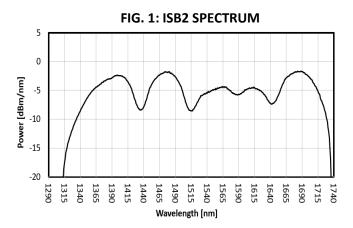
Parameter	Symbol	Condition	Minimum	Typical	Maximum	Unit
Power Meter TEC Temperature Reading Resolution	Rtpm_ read		-	0.1	-	°C

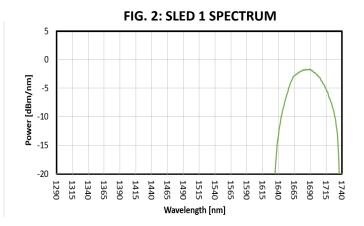
Notes:

5. There may be differences in typical values of output power, power stability, wavelength and bandwidth, due to coupling efficiency. These values are references and there is no guarantee that each particular ISB2 module will have EXACTLY the typical values shown on the previous chart.

- 6. Center Wavelength is defined as the center point of the 3dB bandwidth of each induvial SLED.
- 7. The ISB2 Integrated Spectral Bench uses a Dual Stage Isolator for back reflection protection. Isolators are used to protect a source from back reflections or signals that may occur after the isolator. Back reflections can damage a laser source or cause it to amplitude modulate, or frequency shift. In high-power applications, back reflections can cause instabilities and power spikes. Luxmux does not bear responsibility for laser power damage that is attributed to hot spots in the beam.
- 8. BeST-SLED[®] FWHM is defined as the bandwidth from the lowest spectral dip, when all the SLEDs are on.
- 9. Resolution of 0.1nm. Figure of merit does not include dips between SLEDs.
- 10. Polarization Extinction Ratio is defined as the ratio of optical powers of perpendicular polarizations, expressed in decibels (dB).
- 11. These terms are defined with respect to the plane of the base of the ISB2.
- 12. Beam Divergence Angle is defined as half angle.
- 13. Calculated with D4σ method.

F. PLOTS - Test performed at $T_{OP}=25^{\circ}C$ and $T_{TEC}=21^{\circ}C$





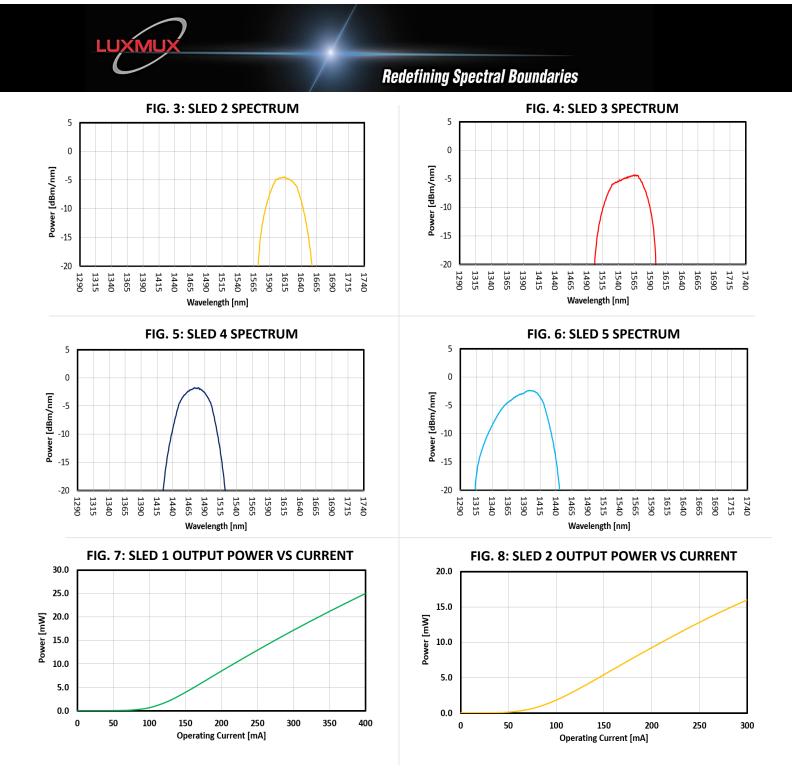
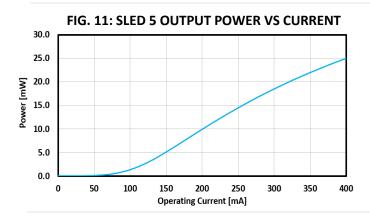


FIG. 9: SLED 3 OUTPUT POWER VS CURRENT 20.0 15.0 Power [mW] 10.0 5.0 0.0 0 50 100 150 200 250 300 350 400 450 500 **Operating Current [mA]**





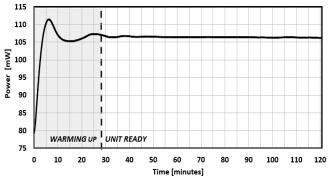
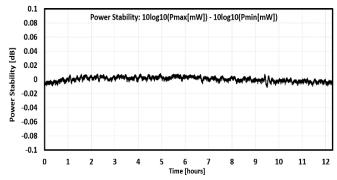




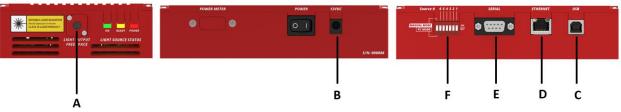
FIG. 10: SLED 4 OUTPUT POWER VS CURRENT 20.0 15.0 Power [mW] 10.0 5.0 0.0 0 50 100 150 200 250 300 350 Operating Current [mA]

FIG. 12: ISB2 TYPICAL POWER STABILITY



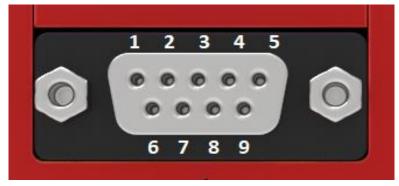


G. CONNECTORS



Item	Description
Α	FC/APC Connector (Optional: FC/PC, SMA)
В	Power Barrel Connector Jack 2.00mm ID, 5.50mm OD, 9.5 mm Length. Center Positive $\bigcirc - \bigodot \odot$
	Input: AC 100-240V Output: 12V 5V min
С	USB 2.0 Type B
D	RJ45 for MODBUS TCP/IP Communication
E	D-SUB 9 Positions for RS-232 Communication
F	Switches to change between PC Mode - Manual Mode and to turn SLED on when operating in
	Manual Mode

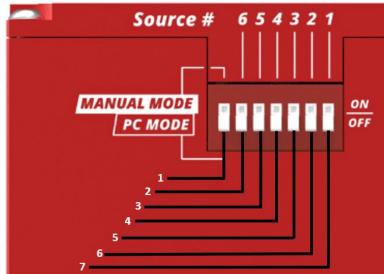
H. D-SUB CONNECTOR PIN OUT



Pin #	Function RS-232
1	Not used
2	Тх
3	Rx
4	Not used
5	GND
6	Not used
7	Not used
8	Not used
9	Not used

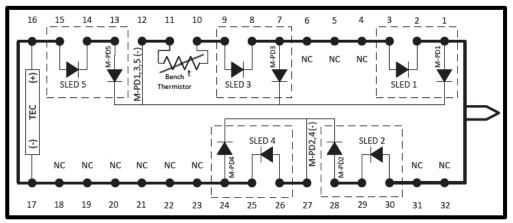


I. MANUAL CONTROL



Pin #	UP	DOWN
1	Light Source in Manual Mode	Light Source in PC Mode
2	N/A	N/A
3	SLED 5 ON	SLED 5 OFF
4	SLED 4 ON	SLED 4 OFF
5	SLED 3 ON	SLED 3 OFF
6	SLED 2 ON	SLED 2 OFF
7	SLED 1 ON	SLED 1 OFF

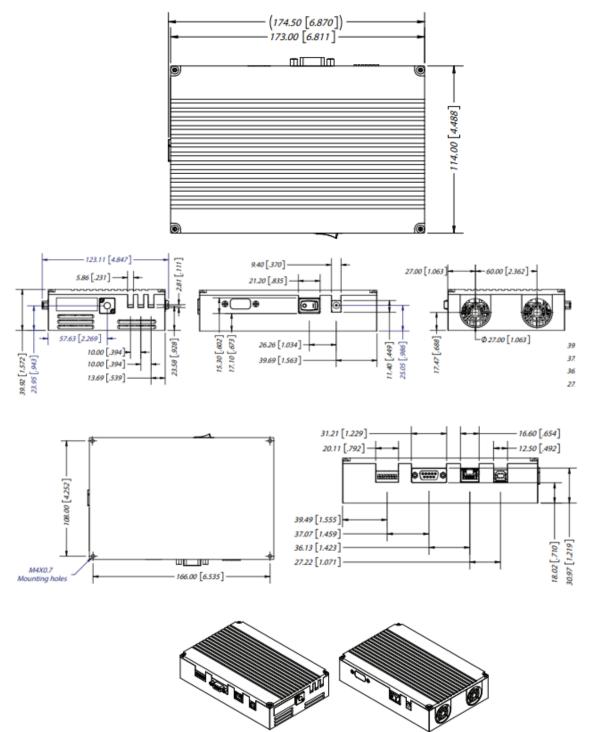
J. OSE2 32-PIN BUTTERFLY PACKAGE PIN OUT



Ex	ternal Pin A	Assig	nment – BeST	-SLE	D: 5 SLEDs		
1	M-PD1 (+)	9	SLED 3(+)	17	TEC (-)	25	SLED 4 (-)
2	SLED 1 (-)	10	Thermistor	18	NC	26	SLED 4 (+)
3	SLED 1 (+)	11	Thermistor	19	NC	27	M-PD2,4 (-)
4	NC	12	M-PD1,3,5 (-)	20	NC	28	M-PD2 (+)
5	NC	13	M-PD5 (+)	21	NC	29	SLED 2 (-)
6	NC	14	SLED 5 (-)	22	NC	30	SLED 2 (+)
7	M-PD3 (+)	15	SLED 5 (+)	23	NC	31	NC
8	SLED 3 (-)	16	TEC (+)	24	M-PD4 (+)	32	NC

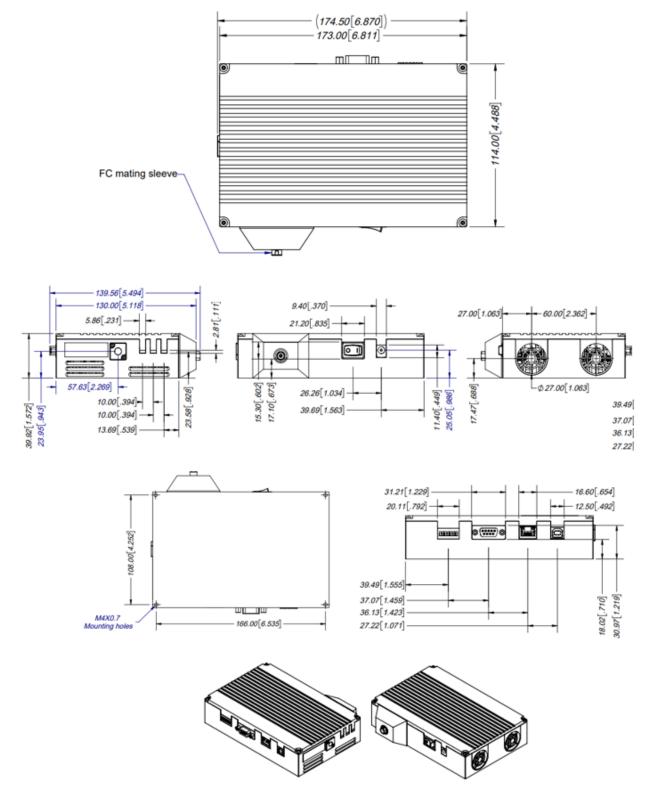


K. MECHANICAL DIAGRAM – ISB2 FREE SPACE





L. MECHANICAL DIAGRAM – ISB2 FREE SPACE WITH POWER METER







M. SAFETY

All statements regarding safety of operation and technical data will only apply when the unit is operated correctly.

The driver must not be operated in environments susceptible to explosion hazards. Do not obstruct the air ventilation slots. If any parts of the driver, or electronics are broken or exposed, contact Luxmux technical support and do not attempt to operate the unit.

The BeST-SLED[®] Integrated Spectral Bench (ISB2) is a Class 1M laser product. It is safe for all conditions of use except when passed through magnifying optics such as microscopes and telescopes. It produces a beam that is divergent. If light is re-focused use protective eye wear.

N. APPLICATION PROTOCOL INTERFACE (API)

Luxmux's driver utilizes the MODBUS Protocol for communications. Users can find numerous detailed specifications for the protocol on the internet. MODBUS is used widely in industrial applications. The driver is designed to use this protocol over all of its communication interfaces, MODBUS – RTU is a master/slave protocol and is employed by the USB or RS232 port, and MODBUS - TCP/IP is a client/server protocol and is employed by the Ethernet Interface.

The MODBUS specification has outlined how a user can adapt the overall packet structure to suit each interface requirement. The primary section of a MODBUS packet is known as the Protocol Data Unit (PDU) and it is independent of the underlying communication interface. The PDU includes additional byte fields for the MODBUS transaction per the Application Data Unit (ADU).

A high-level overview of MODBUS Protocol can be found on the BeST-SLED[®] Integrated Spectral Bench User Manual. If users want to develop their own API, the ISB2 Register Map is available upon request. Please contact technical support: techsupport@luxmux.com.



O. ORDERING CODE

ORDERIN	IG CODE:	LTC	ISB2	SLEDs	FT	DOP	sc	FWHM	cw	LOP]
LTC	Luxmux Technology Corporation										Product Code
ISB2	Best-SLED* Optical Spectral Engine G2										Available Options Taken From Table
SLEDs	SLED center wavelength, choose from one of the models in the table 1300nm, 1340nm, 1390nm, 1430nm, 1480nm, 1550nm, 1615nm, 1680nm [choose up to 6]										
FT	Fiber Type, choose 1: PM: Polarization Maintaining SM: Single Mode FS: Free Space										
DOP	Degree of Polarization LP: Low Degree of Polarization HP: High Degree of Polarization										
SC	Spectral Coverage [nm]	<u> </u>									
FWHM	Full Width Half Maximum [nm] [FWHM defined as the bandwidth from the lowest spectral dip]										
CW	Center Wavelength [nm]	<u> </u>									
LOP	Light Output Power [mW]	<u> </u>									

Part Number	Ordering Code: LTC-ISB2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP)	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
ASM000501	LTC-ISB2-1615_1680-PM-HP-1575_1725-150-1650-12	1615, 1680	PM	1575 - 1725	150	1650	12
ASM000502	LTC-ISB2-1480_1550_1615-PM-HP-1435_1640-205-1538-18	1480, 1550, 1615	PM	1435 - 1640	205	1538	18
ASM000503	LTC-ISB2-1340_1390_1430-PM-HP-1310_1465-155-1388-20	1340, 1390, 1430	PM	1310 - 1465	155	1388	20
ASM000504	LTC-ISB2-1300_1340_1390_1430-PM-HP-1265_1465-200-1365-25	1300, 1340, 1390, 1430	PM	1265 - 1465	200	1365	25
ASM000505	LTC-ISB2-1480_1550_1615_1680-PM-HP-1435_1725-290-1580-25	1480, 1550, 1615, 1680	PM	1435 - 1725	290	1580	25
ASM000506	LTC-ISB2-1300_1340_1390_1430_1480-PM-HP1265_1500-235-1383-35	1300, 1340, 1390, 1430, 1480	PM	1265 - 1500	235	1383	35
ASM000507	LTC-ISB2-1340_1390_1430_1480_1550-PM-HP-1305_1605-300-1455-35	1340, 1390, 1430, 1480, 1550	PM	1305 - 1605	300	1455	35
ASM000508	LTC-ISB2-1300_1390_1480_1550_1615_1680-PM-HP-1265_1725-460-1495-40	1300, 1390, 1480, 1550, 1615, 1680	PM	1265 - 1725	460	1495	40
ASM000509	LTC-ISB2-1480_1550-PM-HP-1435_1605-170-1520-12	1480, 1550	PM	1435 - 1605	170	1520	12
ASM000510	LTC-ISB2-1340_1390_1430_1480_1550_1615-PM-HP-1310_1640-330-1475-38	1340, 1390, 1430, 1480, 1550, 1615	PM	1310 - 1640	330	1475	38
ASM000511	LTC-ISB2-1300_1340_1390_1430_1480_1550-PM-HP-1265_1605-340-1435-40	1300, 1340, 1390, 1430, 1480, 1550	PM	1265 - 1605	340	1435	40
ASM000512	LTC-ISB2-1430_1480_1550-PM-HP-1410_1605-195-1508-19	1430, 1480, 1550	PM	1410 - 1605	195	1508	19
ASM000513	LTC-ISB2-1300_1340_1390-PM-HP-1265_1420-155-1343-20	1300, 1340, 1390	PM	1265 - 1420	155	1343	20
ASM000514	LTC-ISB2-1390_1430_1480-PM-HP-1355_1500-145-1428-19	1390, 1430, 1480	PM	1355 - 1500	145	1428	19
ASM000515	LTC-ISB2-1550_1615_1680-PM-HP-1515_1725-210-1620-18	1550, 1615, 1680	PM	1515 - 1725	210	1620	18
ASM000516	LTC-ISB2-1300_1340-PM-HP-1265_1365-100-1315-12	1300, 1340	PM	1265 - 1365	100	1315	12
ASM000517	LTC-ISB2-1390_1480_1550-PM-HP-1340_1610-270-1475-20	1390, 1480, 1550	PM	1340 - 1610	270	1475	20
ASM000518	LTC-ISB2-1300_1390_1480-PM-HP-1265_1500-235-1383-20	1300, 1390, 1480	PM	1265 - 1500	235	1383	20
ASM000519	LTC-ISB2-1390_1480_1550_1615_1680-PM-HP-1340_1725-385-1533-32	1390, 1480, 1550, 1615, 1680	PM	1340 - 1725	385	1533	32
ASM000520	LTC-ISB2-1550_1615-PM-HP-1530_1630-100-1580-10	1550, 1615	PM	1530 - 1630	100	1580	10



AMMONDED: ITC GB2 1440, 1550, 1615 5M HP 1415, 140 205-1384.8 1480, 1550, 1615 3M 1485-1640 205 138 AMMONDED: ITC GB2 1440, 1300, 1403 5M HP 1415, 140 205-1384.80 1300, 1400, 1400 M 130-1454 130-1455 130-1455 140-1450	Part Number	Ordering Code: LTC-ISB2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP)	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
AMM000001 117C 682-1340_1390_1430 544 F-135 148-20 1340,190,140 544 110-1445 1155 138 AMM00004 117C 682-1300_1340_1590_1430_1448-1355_148-200-1388-25 1300,1340,1180,1480 544 1285-1485 200 138 AMM000501 117C 682-1400_1316_1180_0344 F-126_1302-25-188-35 1300,140,140,140,140,140 544 1285-1300 235 138 AMM000501 117C 682-140_130_140_1180_550 4FF-1126_1302-157-163-15 1340,130,140,140,140,140,155 544 1365-160 100 148 AMM000501 117C 682-140_130_140_1140_1550 4FF-126_1372-40-148-50 1300,140,140,140,155 544 1300 140 130 140 140 </td <td>ASM000601</td> <td>LTC-ISB2-1615_1680-SM-HP-1575_1725-150-1650-12</td> <td>1615, 1680</td> <td>SM</td> <td>1575 - 1725</td> <td>150</td> <td>1650</td> <td>12</td>	ASM000601	LTC-ISB2-1615_1680-SM-HP-1575_1725-150-1650-12	1615, 1680	SM	1575 - 1725	150	1650	12
AMM00004 UTC482-1300_1340_1340_1440 5444-135_1462-200-1369-25 1300,1440,1490,1450 M 1285-1465 200 1384 AMM00050 UTC482-1400_155_160 54444-135_1725-201-580-25 1480,1550,1615,1880 M 1483-1500 243 AMM00060 UTC482-1140_1300_140_140_0440_1550 55444F-126_1505-300-1455-35 1340,1500,1401,1400,1400,1500 M 1365-1660 300 4383 AMM00060 UTC482-1140_1300_140_140_155_1564-44F-1120_1604-301-1475-180 1340_1500,1400,1400,1400,1500 M 1305-1640 300 4374 AMM00060 UTC482-1400_140_150_140_140_1505-544F-1120_1604-301-1475-180 1340_1501,140,1400,1500 M 1305-1640 300 4374 AMM00061 UTC482-1400_140_150_150-544F-126_1540-545-1482-10 1300_1140,140,150 M 1265-160 1401 AMM00051 UTC482-1500_140_140_140_044H-125_1620-55-154F-12 1300_1140,140,150 M 1265-160 1401 AMM00051 UTC482-1500_140_140_140_150-154-1649 1300_1140,1400 M 1265-125 120 1402 AMM00051 UTC482-1500_140_54-149-139 1300_1140,1401,1400 M 1265-125 <td< td=""><td>ASM000602</td><td>LTC-ISB2 -1480_1550_1615-SM-HP-1435_1640-205-1538-18</td><td>1480, 1550, 1615</td><td>SM</td><td>1435 - 1640</td><td>205</td><td>1538</td><td>18</td></td<>	ASM000602	LTC-ISB2 -1480_1550_1615-SM-HP-1435_1640-205-1538-18	1480, 1550, 1615	SM	1435 - 1640	205	1538	18
AMMOONDES ITC 682-140 Jable	ASM000603	LTC-ISB2-1340_1390_1430-SM-HP-1310_1465-155-1388-20	1340, 1390, 1430	SM	1310 - 1465	155	1388	20
ASM000060 ITC 682-1200_1400_1400_1400_04M+P-126_1500-215-138-35 1300_1140_1180_1440_1460_50 54 1265-1500 225 138 ASM000067 ITC 682-1100_1300_1480_1500_1555_0M+P-1305_1252 1300_1300_1400_1550_1615_0M 440 1400 ASM000061 ITC 682-1300_1300_1480_1550_1615_180.50M+P-1355_1275-460-1455-0M 1300_1300_1400_1550_1615_M 4480_1550 440 1480_1550 ASM000061 ITC 682-1400_1300_1440_1480_1550_1615_60M+P-1355_1655-540-1455-40 1300_1340_1480_1550_161 4480_1550 440 1480_1550 ASM000051 ITC 682-1400_1340_1340_1440_1550_1645-148-190 1300_1440_1480_150 544 1480_1550 440 1480_1550 ASM000511 ITC 682-1400_1340_1340_1440_155_140-155-144-20 1300_1440_1480 544 1480_1550 440 1480_150 ASM000512 ITC 682-1300_1340_1440_54H+125_140-155-144-20 1300_140,1300_1480_1480_1480_1480_150 544 1480_150 544 1480_150 ASM000512 ITC 682-1300_1440_4480_54H+125_150-1615-164 1500_1450_1480_150 54 1482_150 1480_150 ASM000512 ITC 682-1300_1400_1480_54H+125_150-1615-164 1500_1150_1480_1480_1480_150	ASM000604	LTC-ISB2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25	1300, 1340, 1390, 1430	SM	1265 - 1465	200	1365	25
ASM000071 ITC (582-1300 1300 1480 1550 944/HP 1305 1655-300-1455-35 1400 1300 1400 1450 1550 155 940 1305 1300 1405 ASM000008 ITC (582-1400 1300 1480 1550 1015 1680-944/HP 1350 1725 460-1495-40 1300 1300 1480 1550 1615 940 1485 1600 170 873 ASM000010 ITC (582-1400 1300 1440 1505 1105 105 105 105 120 1440 1500 940 1405 1600 170 1300 ASM000011 ITC (582-1400 1300 1440 1400 1505 105 144HP 1305 1605 440 1435-40 1300 1340 1440 1440 140 1405 1300 140 1300 140 1300 140 1405 155 143 1300 140 </td <td>ASM000605</td> <td>LTC-ISB2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25</td> <td>1480, 1550, 1615, 1680</td> <td>SM</td> <td>1435 - 1725</td> <td>290</td> <td>1580</td> <td>25</td>	ASM000605	LTC-ISB2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25	1480, 1550, 1615, 1680	SM	1435 - 1725	290	1580	25
ASM000060 ITC 482-130_1300_1400_1550_1615_1800 SM-HP 1285_1725-400-1495-40 1300_1300_1400_1550_1615, SM M 1265-1725 460 1499 ASM000060 ITC 482-140_1150_SM-HP-1435_1005-170-1520-12 1440_1550 SM 1410-1640 330 147 ASM000061 ITC 482-140_1130_140_1130_140_1550_SM-HP-1255_1065-340-1435-40 1350_1340_1300_1440_1550 SM 1140-1640 330 147 ASM000611 ITC 482-140_130_140_1350_SM-HP-1410_160-195-1548-1425 1300_1340_1300_1440_1550 SM 1265-1625 340 143 ASM000612 ITC 482-140_140_1550_SM-HP-1410_160-195-1432-0 1300_1340_1300 SM 1265-1120 155 144 ASM000614 ITC 482-140_140_140_1550_SM-HP-135_1500-145-1422-19 1300_1440_150_150 SM 1255-150 145 142 ASM000613 ITC 482-130_140_05M-HP-135_1500-161-12 1300_1440_150_150 SM 1265-150 225 138 ASM000614 ITC 482-130_140_05M-HP-126_1150_160-270-147-20 1300_1440_1550_1615_1640 SM 1265-160 225 138 ASM000610 ITC 482-130_140_150_1615_1640_5M-HP-126_1500-226 1300	ASM000606	LTC-ISB2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35	1300, 1340, 1390, 1430, 1480	SM	1265 - 1500	235	1383	35
Nameword Integration Same	ASM000607	LTC-ISB2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35	1340, 1390, 1430, 1480, 1550	SM	1305 - 1605	300	1455	35
ASM000610 ITC:682:1430_1390_1430_1480_1550_50.615.5M:HP-1310_1640-330-1475-38 1340_1390_1430_1480_1550_5M SM 1310-1640 330 1477 ASM000611 ITC:682:1430_1480_1550_5M:HP-140_1605-195-1508-19 1430_1480_1550_5M SM 1410-1605 195 1550 ASM000612 ITC:682:1430_1480_1550_5M:HP-140_1605-195-1508-19 1430_1480_1550_5M SM 1410-1605 195 1550 ASM000613 ITC:682:1430_1480_1480_5M:HP-1265_1240-155-148+20 1300_1340_1880_5M SM 1355-1500 145 1430 ASM000614 ITC:682:1300_1340_1480_5M:HP-1355_1275-210-1620-18 1500_1615_1680 SM 1355-1705 143 1430-1610 270 1477 ASM000614 ITC:682:1300_1340_1480_5M:HP-1355_1275-210-1620-18 1300_1380_1480_1550 SM 1340-1510 270 1477 ASM000613 ITC:682:1300_130_1480_5M:HP-136_150-270-1475-20 1390_1480_1550_1615 SM 1340-1510 270 1477 ASM0000613 ITC:682:1300_130_140_150_1615_160.5M:HP-1340_1725-385-153-32 1390_1480_1550_1615 SM 1340-1725 235 1388 ASM0000701	ASM000608	LTC-ISB2-1300_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40		SM	1265 - 1725	460	1495	40
Name Initian No. Initian No. Initian No. Initian No.	ASM000609	LTC-ISB2-1480_1550-SM-HP-1435_1605-170-1520-12		SM	1435 - 1605	170	1520	12
ASM000011 ITC (582-130 (140 (130 (140 (150 (5M+HP-126 (160 -340 (143) 49) 1300 (130 (130 (130 (140 (150) 141 ASM00012 ITC (582-140 (140 (150 (5M+HP-140 (160 -159 (150 +14) 20) 1300 (130 (130 (130) SM 126 (140) 135 (140) 1300 (130 (130) 130 (130 (130) SM 126 (140) 135 (150) 130 (130 (130) 130 (130 (130) SM 135 (150) 130 (130 (130) 130) 130 (130 (130) 130) 130 (130 (130) 130) 130 (130 (130) 130) 130 (130 (130) 130) 130 (130 (130) 130) 130 (130) 130 (130) 130 (130) 130 (130) 130 (130) 130 (130) 130 (130) 130 (130) 130 (130) 130) 130 (130) 130 (130) 130 (130) 130 (130) 130) 130 (130) 130) 130 (130) 130) 130 (130) 130) 130 (130) 130) 130 (130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) 130) </td <td>ASM000610</td> <td>LTC-ISB2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38</td> <td></td> <td>SM</td> <td>1310 - 1640</td> <td>330</td> <td>1475</td> <td>38</td>	ASM000610	LTC-ISB2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38		SM	1310 - 1640	330	1475	38
AMMODICIA International (1) along SMM HP1265 (1) 420-155-13/43-20 International (1) along SMM HP1265 (1) 420-155-13/43-20 International (1) along SMM HP1265 (1) 420-155-13/43-20 International (1) along SMM HP1265	ASM000611	LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-HP-1265_1605-340-1435-40	1300, 1340, 1390, 1430, 1480,	SM	1265 - 1605	340	1435	40
ASMODORIA ITC: ISB2-1300_1480_15440-1355_1500-145-1428-19 1300_1430_1480 SM 1355-1500 145 142 ASMODORIA ITC: ISB2-1300_1480_1540-1515_1725-210-1620-18 1550,1615,1680 SM 1515-1725 2.10 163 ASMODORIA ITC: ISB2-1300_1340_SM-HP-1265_1365-100-1315-12 1300,1340 SM 1265-1366 100 131 ASMODORIA ITC: ISB2-1300_1480_1550_SM-HP-1340_160-270-1475-20 1300,1480,1550,1615,1680 SM 1340-1725 386 153 ASMODORIA ITC: ISB2-1300_1480_1550,1615_1680-SM-HP-1340_1725-385-1533-32 1300,1480,1550,1615,1680 SM 1340-1725 386 153 ASMODORIA ITC: ISB2-150_1615.5M-HP-1530_1630-100-1580-10 ITC: ISB2-1615_1680-SM-HP-1350_1630-100-1580-10 ITC: ISB2-1615_1680-SM-HP-1350_1630-12 165,1680 SM 1357-1725 150 ISB ASMODORIA ITC: ISB2-1615_1680-SM-HP-135_1725-150-165-12 165,1680 SM 1357-1725 150 ISB ASMODO7IA ITC: ISB2-1480_1550_1615-1680-4M-HP-135_167-1720-1580-152 160,1530,1615 SM 1351-1660 SM 1351-1620 1384	ASM000612	LTC-ISB2-1430_1480_1550-SM-HP-1410_1605-195-1508-19	1430, 1480, 1550	SM	1410 - 1605	195	1508	19
AMM00051 ITC-1882-1550_1615_1680-SM-HP-1515_1725-210-1620-18 1550_1615_1680 SM 1515-1725 2100 1621 ASM000616 ITC-1882-1300_1340-SM-HP-1265_1365-100-1315-12 1300_1340 SM 1265-1365 100 1314 ASM000617 ITC-1882-1300_1340_1510-270-1475-20 1390_1480_1550 SM 1340-1610 270 1472 ASM000618 ITC-1882-1300_1380_1480_1550_1615_1680-SM-HP-1340_1725-385-1533-32 1390_1480_1550_1615_1680 SM 1340-1725 385 1333 ASM000619 ITC-1882-1300_1340_1480_1550_1615_1680-SM-HP-1340_1725-385-1533-32 1390_1480_1550_1615_1680 SM 1340-1725 385 1333 ASM000701 ITC-1882-1550_1615_1680-SM-HP-1350_1620-120 1550_1615 SM 1350-1725 150 155 ASM000701 ITC-1882-1480_1550_1615_1680-SM-HP-1375_1725-150-1620-123 1661_51680 SM 1350-1645 205 1338 ASM000701 ITC-1882-1480_1550_1615_1680-SM-HP-1435_1640-205-158-18 1340_1390_1430 SM 1265-1465 200 1364 ASM000705 ITC-1882-1480_1550_1615_1680-SM-HP-1435_1662-202-1365-25 1300_1340_	ASM000613	LTC-ISB2-1300_1340_1390-SM-HP-1265_1420-155-1343-20	1300, 1340, 1390	SM	1265 - 1420	155	1343	20
ASM000616 ITC-ISB2-1300_1340-SM-HP-1265_1365-100-1315-12 1300, 1340 SM 1265-1365 1000 1313 ASM000617 ITC-ISB2-1300_1340_1550-SM-HP-1340_1610-270-1475-20 1390, 1480, 1550 SM 1340-1725 2350 1383 ASM000618 ITC-ISB2-1300_1480_1550_1615_1680-SM-HP-1340_1725-385-1533-32 1390, 1480, 1550, 1615, 1680 SM 1340-1725 3850 1533 ASM000620 ITC-ISB2-1300_1480_1550_1615_1680-SM-HP-1340_1725-385-1533-32 1390, 1480, 1550, 1615, 1680 SM 1340-1725 3850 1533 ASM000701 ITC-ISB2-1650_1615-SM-HP-1350_1630-100-1580-10 1550, 1615 SM 1357-1725 1500 158 ASM000702 ITC-ISB2-1615_1680-SM-HP-135_1725-150-150-12 1615, 1680 SM 1310-1465 1550 1333 ASM000703 ITC-ISB2-140_1390_1430-SM-HP-135_1546-200-1365-25 1300, 1340, 1390, 1430 SM 1310-1465 1550 1384 ASM000704 ITC-ISB2-140, 1390_1430, 1480-SM-HP-1265_1465-200-1365-25 1300, 1340, 1390, 1430 SM 1265-1450 200 1384 ASM000705 ITC-ISB2-140, 1500, 1515, 1680-SM-HP-1305, 1655-06-14	ASM000614	LTC-ISB2-1390_1430_1480-SM-HP-1355_1500-145-1428-19	1390, 1430, 1480	SM	1355 - 1500	145	1428	19
ASM000F1 Info test Info test <th< td=""><td>ASM000615</td><td>LTC-ISB2-1550_1615_1680-SM-HP-1515_1725-210-1620-18</td><td>1550, 1615, 1680</td><td>SM</td><td>1515 - 1725</td><td>210</td><td>1620</td><td>18</td></th<>	ASM000615	LTC-ISB2-1550_1615_1680-SM-HP-1515_1725-210-1620-18	1550, 1615, 1680	SM	1515 - 1725	210	1620	18
ASM00061 ITC+ISB2-1300_1390_1480-SM+IP-1265_1500-235-1383-20 1300, 1300, 1480 SM 1265-1500 2255 1383 ASM000619 ITC+ISB2-1300_1390_1480_1550_1615_1680-SM+IP-1340_1725-385-1533-32 1380, 1480, 1550, 1615, 1680 SM 1340-1725 2385 1333 ASM000619 ITC+ISB2-1300_1480_1550_1615_1680-SM+IP-130_01-0530-100 IS50, 1615 SM 1340-1725 2385 1333 ASM000710 ITC+ISB2-1550_1615-I680-SM-IP-1450_1620-12 1615, 1680 SM 1575-1725 150-1650 1550 1535 150 1553 ASM000701 ITC-ISB2-1480_1550_1615-MA-P-1435_1640-205-1538-18 1480, 1550, 1615 SM 1310-1465 1555 1538 ASM000702 ITC-ISB2-1480_1550_1615-MA-P-1435_1640-205-1538-18 1480, 1550, 1615 M 1320-1630 M 1320-1640 2050 1538 ASM000703 ITC-ISB2-1480_1550_1615-MA-P-1435_1672-200-1365-25 1300, 1340, 1390, 1430 M 1425-1300 M 1325-1600 3381 ASM000705 ITC-ISB2-1400_1390_1430_1480_1550-MA+P-1265_1702-29-1580-25 1480, 1550, 1615_1680 M 1265-1700 2325<	ASM000616	LTC-ISB2-1300_1340-SM-HP-1265_1365-100-1315-12	1300, 1340	SM	1265 - 1365	100	1315	12
ASM000619 LTC-ISB2-1390_1480_15S0_1615_1680-SM-HP-1340_1725-385-1533-32 1390, 1480, 15S0, 1615, 1680 SM 1340 - 1725 385 1333 ASM000619 LTC-ISB2-1500_1615_01615_1680-SM-HP-1300_1630-100-1580-10 1550, 1615 SM 1340 - 1725 385 1333 ASM000710 LTC-ISB2-1550_1615_HPP-1530_1630-100-1580-10 1550, 1615 SM 1575 - 1725 150 155 ASM000710 LTC-ISB2-1615_1680-SM-HP-1435_1640-205-1538-18 1480, 1550, 1615 SM 1375 - 1725 150 1553 ASM000703 LTC-ISB2-1480_1550_1615-1640-205-1538-18 1480, 1550, 1615 SM 1320 - 1466 2005 1333 ASM000703 LTC-ISB2-1480_150_1615_1640-205-1538-18 1480, 1550, 1615, 1680 SM 1320 - 1465 1265 1388 ASM000703 LTC-ISB2-1480_1590_1430_1440-1455_157-138-20 1340, 1390, 1430 SM 1265 - 1465 200 1388 ASM000704 LTC-ISB2-1480_1590_1615_1680-SM-LP-1455_1702-290-1380-25 1480, 1550, 1615, 1680 SM 1265 - 1460 1300 1440, 1480, 1550 1388 ASM000705 LTC-ISB2-1400_1390_1430_1480_1550-SM-LP-1	ASM000617	LTC-ISB2-1390_1480_1550-SM-HP-1340_1610-270-1475-20	1390, 1480, 1550	SM	1340 - 1610	270	1475	20
ASM00020 ITC-ISB2-1550_1615-SM-HP-1530_1630-100-1580-10 ISO 01615 SM ISO 1615 ISO 1615 Part Number Ordering Code: ITC-ISB2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP) SLEDs [nm] FT SC [nm] FWHM [nm] CW [nm] ASM000701 ITC-ISB2-1615_6M-IP-1575_1725-150-1650-12 1615, 1680 SM 1575 - 1725 150 1554 ASM000702 ITC-ISB2-1480_1550_1615-SM-IP-1435_1640-205-1538-18 1480, 1550, 1615 SM 1435 - 1640 20.5 1534 ASM000703 ITC-ISB2-1300_1340_1390_1430-SM-IP-1435_1640-205-1538-18 1480, 1550, 1615 SM 1435 - 1640 20.5 1534 ASM000704 ITC-ISB2-1300_1340_1390_1430-SM-IP-1455_1388-20 1340, 1390, 1430 SM 1265 - 1465 20.0 1366 ASM000705 ITC-ISB2-1480_1550_1615_1680-SM-IP-1265_1405-235 1340, 1390, 1430, 1480 SM 1265 - 1500 23.5 1383 ASM000705 ITC-ISB2-1300_1340_1390_1430_1480-MIP-1265_1472-460-1495-40 1300, 1340, 1340, 1480, 1550 SM 1355 - 1605 30.0 1435 ASM000706 ITC-ISB2-1300_1340_1390_1430_1480_1550_MIP-1265_1725-460-1495-40	ASM000618	LTC-ISB2-1300_1390_1480-SM-HP-1265_1500-235-1383-20	1300, 1390, 1480	SM	1265 - 1500	235	1383	20
Part Number Ordering Code: LTC-ISB2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP) SLEDs [nm] FT SC [nm] WHM [nm] CW [nm] ASM000701 LTC-ISB2-1615_1680-SM-LP-1375_1725-150-1650-12 1615,1680 SM 1575-1725 150 153 ASM000702 LTC-ISB2-140_1390_1430_SM-LP-1355_1640-205-1538-18 1480,1550,1615 SM 1335-1640 205 1338 ASM000703 LTC-ISB2-140_1390_1430_SM-LP-1355_1640-205-1538-18 1340,1390,1430 SM 1301-1465 155 1388 ASM000704 LTC-ISB2-130_1340_1390_1430_1480-5M-LP-1265_1645-200-1365-25 1300,1340,1390,1430,1480 SM 1435-1650 205 1388 ASM000705 LTC-ISB2-130_1340_1390_1430_1480_1550_1615-1680-201-155-138-35 1300,1340,1390,1430,1480 SM 1265-150 235 1388 ASM000707 LTC-ISB2-130_1390_1430_1480_1550_1615-1680-5M-LP-1265_1702-50-135-35 1340,1390,1430,1480,1550 SM 1265-150 235 1388 ASM000707 LTC-ISB2-1400_1390_1430_1480_1550_1615-5M-LP-1305_160-300-1455-35 1340,1390,1430,1480,1550 SM 1265-1505 1265 1368 ASM000707 LTC-I	ASM000619	LTC-ISB2-1390_1480_1550_1615_1680-SM-HP-1340_1725-385-1533-32	1390, 1480, 1550, 1615, 1680	SM	1340 - 1725	385	1533	32
ASM00071 ITC-ISB2-1615_1680-SM-IP-1575_1725-150-1650-12 Info <	ASM000620	LTC-ISB2-1550_1615-SM-HP-1530_1630-100-1580-10	1550, 1615	SM	1530 - 1630	100	1580	10
ASM000702 LTC-ISB2-1480_1550_1615-SM-IP-1435_1640-205-1538-18 1480,1550,1615 SM 1435_1640 200 1533 ASM000703 LTC-ISB2-1480_1390_1430-SM-IP-130_1465-155-1388-20 1340,1390,1430 SM 1310_1465 1555 1388 ASM000704 LTC-ISB2-1300_1340_1390_1430-SM-IP-1265_1465-200-1365-25 1300,1340,1390,1430 SM 1265_1465 200 1366 ASM000705 LTC-ISB2-1480_1550_1615_1680-SM-IP-1435_1725-290-1580-25 1480,1550,1615,1680 SM 1435_1725 290 1586 ASM000706 LTC-ISB2-1480_1550_1615_1680-SM-IP-1435_1725-290-1580-25 1480,1550,1615,1680 SM 1265_1500 235 1338 ASM000706 LTC-ISB2-1480_1390_1430_1480_SM-IP-1265_1500-235-1383-35 1300,1340,1390,1430,1480 SM 1265_1500 235 1388 ASM000707 LTC-ISB2-1300_1390_1430_1480_1550-SM-IP-1265_1605-300-1455-35 1340,1390,1430,1480,1550 SM 1265_1725 460 1492 ASM000701 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-IP-1265_1605-340-1455-40 1300,1340,1390,1430,1480,1550 SM 1265_1605 340 1435 ASM000710 LTC-I								
ASM000703 LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I340, 1390, 1430 SM I310 - 1465 I55 I388 ASM000704 LTC-ISB2-1340_1390_1430-SM-LP-1265_1465-200-1365-25 I300, 1340, 1390, 1430 SM I265 - 1465 200 I368 ASM000705 LTC-ISB2-1340_1390_1430-SM-LP-1265_1465-200-1365-25 I300, 1340, 1390, 1430 SM 1265 - 1465 200 I368 ASM000705 LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1725-290-ISB0-25 I480, 1550, 1615, 1680 SM 1435 - 1725 290 I580 ASM000706 LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1702-235-1383-35 I300, 1340, 1390, 1430, 1480 SM 1265 - 1500 235 1383 ASM000707 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1702-540-1495-40 1300, 1390, 1430, 1480, 1550 SM 1265 - 1725 460 1499 ASM000701 LTC-ISB2-1340_1390_1430_1480_1550-SM-LP-1265_1725-460-1495-40 1300, 1340, 1390, 1430, 1480, 1550, 1615 SM 1310 - 1640 330 1475 ASM000710 LTC-ISB2-1340_1390_1430_1480_1550-SM-LP-130_1640-330-1475-38 I340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433	Part Number	Ordering Code: LTC-ISB2-{SLEDS}-{FT}-{DOP}-{SC}-{FWHM}-{CW}-{LOP}	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
ASM000704 LTC-1SB2 - 1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 1300, 1340, 1390, 1430 SM 1265 - 1465 200 1366 ASM000705 LTC-1SB2 - 1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 1480, 1550, 1615, 1680 SM 1435 - 1725 290 1580 ASM000706 LTC-1SB2 - 1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 1300, 1340, 1390, 1430, 1480 SM 1265 - 1605 235 1383 ASM000706 LTC-1SB2 - 1300_1390_1430_1480-SM-LP-1265_1500-235-1383-35 1300, 1340, 1390, 1430, 1480, 1550 SM 1305 - 1605 300 1455 ASM000707 LTC-1SB2 - 1300_1390_1480_1550_50.1615_1680-SM-LP-1265_1725-460-1495-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1725 460 1499 ASM000708 LTC-1SB2 - 1300_1390_1480_1550_50.1615_1680-SM-LP-1265_1725-460-1495-40 1300, 1340, 1390, 1440, 1550 SM 1265 - 1605 310 1475 ASM000710 LTC-1SB2 - 1340_1390_1430_1480_1550_1615_50.M-LP-130_1640-330-1475-38 1340, 1390, 1440, 1480, 1550 SM 1265 - 1605 340 1433 ASM000711 LTC-1SB2 - 1300_1340_1390_1430_1480_1550.SM-LP-1265_1605-340-1435-40 1300, 1340, 1340, 1480, 1550 SM							CW [nm] 1650	
ASM000705 LTC-ISB2-1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 1480,1550,1615,1680 SM 1435 - 1725 290 1580 ASM000706 LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 1300,1340,1390,1430,1480 SM 1265 - 1500 235 1383 ASM000707 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1500-235-1383-35 1340,1390,1430,1480,1550 SM 1205 - 1500 236 1345 ASM000707 LTC-ISB2-1300_1390_1430_1480_1550_50-1615_1605-300-1455-35 1340,1390,1430,1480,1550 SM 1305 - 1605 300 1455 ASM000708 LTC-ISB2-1480_1550_50-MLP-1305_1615_1605-300-1455-35 1340,1390,1480,1550,1615_1680 SM 1265 - 1725 460 1499 ASM000709 LTC-ISB2-1480_1550-SM-LP-1435_105-170-122 1480,1550 SM 1435 - 1605 170 1527 ASM000710 LTC-ISB2-1430_1390_1430_1480_1550_615-5M-LP-130_1640-330-1475-38 1340,1390,1430,1480,1550,1615 SM 1265 - 1605 340 1437 ASM000711 LTC-ISB2-1430_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300,1340,1380,1480,1550 SM 1265 - 1605 340 1433 <t< td=""><td>ASM000701</td><td>LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12</td><td>1615, 1680</td><td>SM</td><td>1575 - 1725</td><td>150</td><td></td><td>[mW]</td></t<>	ASM000701	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12	1615, 1680	SM	1575 - 1725	150		[mW]
ASM000706 LTC-1S82-1300_1340_1390_1430_1480_SM-LP-1265_1500-235-1383-35 1300, 1340, 1390, 1430, 1480, 1500 2165 - 1500 235 1388 ASM000707 LTC-1S82-1300_1330_1430_1480_1550_SM-LP-1305_1605-300-1455-35 1340, 1390, 1430, 1480, 1550 SM 1305 - 1605 300 1455 ASM000708 LTC-1S82-1300_1390_1430_1550_1615_1680_SM-LP-1265_1725-460-1495-40 1300, 1340, 1390, 1480, 1550 SM 1265 - 1500 300 1455 ASM000709 LTC-1S82-1480_1550_SM-LP-1435_1605-170-1520-12 1480, 1550 SM 1305 - 1605 3100 1330 ASM000710 LTC-1S82-1300_1340_1480_1550_1615-SM-LP-1310_1640-330-1475-38 1340, 1390, 1430, 1480, 1550, 1615 SM 1310 - 1640 330 1477 ASM000710 LTC-1S82-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000711 LTC-1S82-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000711 LTC-1S82-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390 SM 1265 - 160 15	ASM000701 ASM000702	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 [LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 [1615, 1680 1480, 1550, 1615	SM SM	1575 - 1725 1435 - 1640	150 205	1650	[mW
ASM000707 LTC-ISB2-1340_1390_1430_1430_1550_SM-LP-1305_1605-300-1455-35 I340,1390,1430,1480,1550 SM I305 - 1605 300 1495 ASM000708 LTC-ISB2-1300_1390_1430_1550_1615_1680-SM-LP-1265_1725-460-1495-40 I300,1390,1480,1550,1615,1680 SM 1265 - 1725 46.0 1499 ASM000709 LTC-ISB2-1480_1550_SM-LP-1435_1605-170-1520-12 1480,1550 SM 1305 - 1605 300 1437 ASM000710 LTC-ISB2-1480_1550_1615-SM-LP-1310_1640-330-1475-38 1340,1390,1430,1480,1550,1615 SM 1310 - 1640 330 1477 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300,1340,1390,1430,1480,1550 SM 1265 - 1605 3400 1433 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300,1340,1390,1430,1480,1550 SM 1265 - 1605 3400 1433 ASM000712 LTC-ISB2-1430_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300,1340,1390,1430,1480,1550 SM 1265 - 1605 3400 1433 ASM000712 LTC-ISB2-1300_1340_1390_SM-LP-1265_1343-20 1300,1340,1390 SM 1265 - 1620 155 1342	ASM000701 ASM000702 ASM000703	LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20	1615, 1680 1480, 1550, 1615 1340, 1390, 1430	SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465	150 205 155	1650 1538	[mW] 12 18
ASM000708 LTC-ISB2-1300_1340_1550_1615_1680-SM-LP-1265_1725-460-1495-40 1300_1390_1480_1550_1615.1680 SM 1265 - 1725 460 1495 ASM000709 LTC-ISB2-1480_1550_SM-LP-1435_1605-170-1520-12 1480_1550 SM 1435 - 1605 170 1527 ASM000710 LTC-ISB2-1480_1550_SM-LP-1435_1605-170-1520-12 1480_1550 SM 1310 - 1640 330 1477 ASM000710 LTC-ISB2-1340_1390_1430_1480_1550_SM-LP-1310_1640-330-1475-38 1340_1390_1430_1480_1550_1615 SM 1310 - 1640 330 1477 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300_1340_1390_1430_1480_1550 SM 1265 - 1605 340 1433 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300_1340_1390_1430_1480_1550 SM 1265 - 1605 340 1433 ASM000712 LTC-ISB2-1300_1340_1390_SM-LP-1265_1605-340-1435-40 1300_1340_1390_1430_1480_1550 SM 1265 - 1605 340 1433 ASM000712 LTC-ISB2-1300_1340_1390_SM-LP-1265_1343-20 1300_1340_1480_1550 SM 1265 - 1620 155 1342 ASM000714<	ASM000701 ASM000702 ASM000703 ASM000704	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1340_1390_1430-SM-LP-1265_1465-200-1365-25 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430	SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465	150 205 155 200	1650 1538 1388	[mW] 12 18 20
ASM000709 LTC-ISB2-1480_1550_SM-LP-1435_1605-170-1520-12 1480_1550 SM 1435 - 1605 170 1520 ASM000710 LTC-ISB2-1440_1390_1430_1480_1550_1615-SM-LP-1310_1640-330-1475-38 1340, 1390, 1430, 1480, 1550, 1615 SM 1310 - 1640 330 1475 ASM000710 LTC-ISB2-1300_1340_1390_1430_1480_1550_SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000712 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1410 - 1605 195 1500 ASM000712 LTC-ISB2-1430_1480_1550-SM-LP-140_1605-195-1508-19 1430, 1480, 1550 SM 1265 - 1420 155 1342 ASM000713 LTC-ISB2-1300_1340_1390-SM-LP-1265_1343-20 1300, 1340, 1390 SM 1265 - 1420 155 145 1422 ASM000714 LTC-ISB2-1300_1340_1480-SM-LP-135_1500-145-1428-19 1390, 1430, 1480 SM 1355 - 1500 145 1422 </td <td>ASM000701 ASM000702 ASM000703 ASM000704 ASM000705</td> <td>LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 I</td> <td>1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680</td> <td>SM SM SM SM SM</td> <td>1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725</td> <td>150 205 155 200 290</td> <td>1650 1538 1388 1365</td> <td>[mW) 12 18 20 25</td>	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680	SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725	150 205 155 200 290	1650 1538 1388 1365	[mW) 12 18 20 25
ASM000710 LTC-ISB2-1340_1390_1430_1480_1550_1615-SM-LP-1310_1640-330-1475-38 1340, 1390, 1430, 1480, 1550, 1615 SM 1310 - 1640 330 1473 ASM000710 LTC-ISB2-1340_1390_1430_1480_1550_1615-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300, 1340, 1390, 1430, 1480, 1550 SM 1265 - 1605 340 1433 ASM000712 LTC-ISB2-1430_1480_1550-SM-LP-140_1605-195-1508-19 1430, 1480, 1550 SM 1410 - 1605 195 1500 ASM000713 LTC-ISB2-1430_1340_1390-SM-LP-1265_1420-155-1343-20 1300, 1340, 1390 SM 1265 - 1420 155 1344 ASM000714 LTC-ISB2-1300_1340_1390-SM-LP-1265_1500-145-1428-19 1390, 1430, 1480 SM 1355 - 1500 145 1428 ASM000715 LTC-ISB2-1300_1340_0SM-LP-135_5_1500-145-1428-19 1390, 1430, 1480 SM 1355 - 1500 1455 1428 ASM000716 LTC-ISB2-1300_1340-SM-LP-1515_1725-210-1620-18 1550, 1615, 1680 SM 1515 - 1725 210 1627 ASM0	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000706	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 I LTC-ISB2-1300_1340_1390_1430_1440-SM-LP-1265_1500-235-1383-35 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680 1300, 1340, 1390, 1430, 1480	SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500	150 205 155 200 290 235	1650 1538 1388 1365 1580	[mW] 12 18 20 25 25
ASM000711 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1300,1340,1390,1430,1480,1550 SM 1265-1605 340 1433 ASM000712 LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 1430,1480,1550 SM 1265-1605 340 1433 ASM000712 LTC-ISB2-130_1340_1390_SM-LP-1265_1508-19 1430,1480,1550 SM 1410-1605 195 1344 ASM000713 LTC-ISB2-1300_1340_1390-SM-LP-1265_1420-155-1343-20 1300,1340,1390 SM 1265-1420 155 1412 ASM000714 LTC-ISB2-1300_1430_1480-SM-LP-1355_1500-145-1428-19 1390,1430,1480 SM 1355-1500 145 1422 ASM000715 LTC-ISB2-1300_1340_SM-LP-1265_1365-100-1315-12 1550,1615,1680 SM 1515-1725 2100 1324 ASM000716 LTC-ISB2-1300_1340-SM-LP-1265_1365-100-1315-12 1300,1340 SM 1265-1365 1000 1334 ASM000716 LTC-ISB2-1300_1340-SM-LP-1265_1365-100-1315-12 1300,1340 SM 1265-1365 1000 1334 ASM000717 LTC-ISB2-1300_1340-SM-LP-1265_1365-100-1315-12 1300,1340	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000706 ASM000707	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1480_1550_1615_1680-SM-LP-1435_1725-290-1580-25 I LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1340_1390_1430_1480_5S0-SM-LP-1305_1605-300-1455-35 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680 1300, 1340, 1390, 1430, 1480 1340, 1390, 1430, 1480, 1550	SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605	150 205 155 200 290 235 300	1650 1538 1388 1365 1580 1383	[mW] 12 18 20 25 25 35
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ASM000718 LTC./SR2.1300 1390 1480.SMJR.1265 1500.225.1382.20 1200 1490 584 1265 1500 225 1383	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000707 ASM000708 ASM000709 ASM000710 ASM000711 ASM000713 ASM000713 ASM000714	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1300_1340_1390_1430_SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1305_1605-300-1455-35 I LTC-ISB2-1300_1390_1430_1480_1550_1615_1680-SM-LP-1265_1725-460-1495-40 I LTC-ISB2-1300_1390_1430_1480_1550_1615-SM-LP-1305_1605-300-1455-35 I LTC-ISB2-1300_1390_1430_1480_1550_1615-SM-LP-1305_1605-300-1455-36 I LTC-ISB2-1300_1340_1390_1430_1480_1550_1615-SM-LP-130_1640-330-1475-38 I LTC-ISB2-1300_1340_1390_1430_1480_1550_5M-LP-1265_1605-340-1435-40 I LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-40 I LTC-ISB2-1300_1340_1390-SM-LP-1265_1420-155-1343-20 I LTC-ISB2-1300_1340_1390-SM-LP-1355_1500-145-1428-19 I LTC-ISB2-1300_1340_1480-SM-LP-1355_1500-145-1428-19 I LTC-ISB2-1550_1615_1680-SM-LP-1515_1725-210-1620-18 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615, 1680 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615 1300, 1340, 1390, 1430, 1480, 1550, 1615 1300, 1340, 1390, 1430, 1480, 1550 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480	SM SM SM SM SM SM SM SM SM SM SM SM SM S	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640 1265 - 1605 1410 - 1605 1265 - 1420 1355 - 1500	150 205 155 200 290 235 300 460 170 330 340 195 155 145 210	1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1435 1508 1343 1428	[mW 12 18 20 25 35 35 35 35 40 12 38 40 19 20 19
HSW000710 ETC HSZ 1500_1550_1500 255 1505 250 1505 250 1500 255 1505 250 1500	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000706 ASM000707 ASM000708 ASM000710 ASM000711 ASM000714 ASM000715 ASM000715	LTC-ISB2-1615_1680-SM-LP-1575_172S-150-1650-12 I LTC-ISB2-1480_1550_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1300_1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1300_1340_1390_1430_SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1300_1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1300_1390_1430_1480_1550-SM-LP-1305_1605-300-1455-35 I LTC-ISB2-1300_1390_1430_1480_1550_1615_1680-SM-LP-1265_1725-460-1495-400 I LTC-ISB2-1300_1390_1430_1480_1550_1615_M-LP-1305_1605-300-1455-35 I LTC-ISB2-1300_1390_1430_1480_1550_1615_M-LP-1301_1640-330-1475-38 I LTC-ISB2-1300_1340_1380_1430_1480_1550-SM-LP-1265_1605-340-1435-40 I LTC-ISB2-1300_1340_1380_1430_1480_1550-1615-184-19 I LTC-ISB2-1300_1340_1380_1430_1480_1550-195-1508-19 I LTC-ISB2-1300_1340_1390_M-LP-1265_1420-155-1343-20 I LTC-ISB2-1390_1430_1480-SM-LP-1355_1500-145-1428-19 I LTC-ISB2-1350_1615_1680-SM-LP-1515_1725-210-1620-18 I LTC-ISB2-1300_1340-SM-LP-1265_1365-100-1315-12 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430, 1480 1480, 1550, 1615, 1680 1300, 1340, 1390, 1430, 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615, 1680 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615 1300, 1390, 1430, 1480, 1550, 1615 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550 1390, 1430, 1480 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550	SM SM SM SM SM SM SM SM SM SM SM SM SM S	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1410 - 1605 1410 - 1605 1265 - 1420 1355 - 1500 1515 - 1725 1265 - 1365	150 205 155 200 235 300 460 170 330 340 195 155 145 210 100	1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1435 1436 1508 1343 1428 1620	[mW 12 18 20 25 35 35 35 40 12 38 40 12 38 40 19 20 19 19
ASM000719 LTC-IS82-1390_1480_1550_1615_1680-SM-LP-1340_1725-385-1533-32 1390, 1480, 1550, 1615, 1680 SM 1340 - 1725 385 1533-32	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000706 ASM000707 ASM000708 ASM000709 ASM000710 ASM000711 ASM000713 ASM000714 ASM000715 ASM000716	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1340_1390_1430-SM-LP-135_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1340_1390_1430-SM-LP-1265_1500-235-1388-35 I LTC-ISB2-1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1340_1390_1430_1480_1550-SM-LP-1305_1605-300-1455-35 I LTC-ISB2-1340_1390_1430_1480_1550_1615_1680-SM-LP-1265_1725-460-1495-40 I LTC-ISB2-1340_1390_1430_1480_1550_1615-SM-LP-130_1640-330-1475-38 I LTC-ISB2-1340_1390_1430_1480_1550_5M-LP-1265_1605-340-1435-40 I LTC-ISB2-1340_1390_1430_1480_1550_5M-LP-1265_1605-340-1435-40 I LTC-ISB2-1340_1390_1430_1480_1550_5M-LP-1265_1605-340-1435-40 I LTC-ISB2-1340_1340_1390_1430_1480_1550_5M-LP-1265_1605-340-1435-40 I LTC-ISB2-1300_1340_1390_5M-LP-1265_1420-155-1343-20 I LTC-ISB2-1300_1340_1390-SM-LP-135_1500-145-1428-19 I LTC-ISB2-1300_1340_1340-SM-LP-135_1725-210-1620-18 I LTC-ISB2-1300_1340_5M-LP-1265_1365-100-1315-12 I LTC-ISB2-1300_1340_1550-SM-LP-1340_1610-270-1475-20 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430, 1480 1480, 1550, 1615, 1680 1300, 1340, 1390, 1430, 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615, 1680 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615, 1680 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615 1300, 1340, 1390, 1430, 1480, 1550 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480, 1550	SM SM SM SM SM SM SM SM SM SM SM SM SM S	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1410 - 1605 1410 - 1605 1265 - 1420 1355 - 1500 1515 - 1725 1265 - 1365	150 205 155 200 235 300 460 170 330 340 195 155 145 210 100	1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1435 1508 1343 1428 1620 1315	[mW] 12 18 20 25 35 35 35 35 35 35 35 35 35 35 35 40 12 38 40 19 9 20 19 18
ASM000720 LTC-IS82-1550_1615-SM-LP-1530_1630-100-1580-10 1550,1615 SM 1530 - 1630 100 1580-10	ASM000701 ASM000702 ASM000703 ASM000704 ASM000705 ASM000707 ASM000709 ASM000709 ASM000710 ASM000711 ASM000711 ASM000713 ASM000715 ASM000716 ASM000717 ASM000717	LTC-ISB2-1615_1680-SM-LP-1575_1725-150-1650-12 I LTC-ISB2-1340_1390_1615-SM-LP-1435_1640-205-1538-18 I LTC-ISB2-1340_1390_1430-SM-LP-1310_1465-155-1388-20 I LTC-ISB2-1340_1390_1430-SM-LP-1265_1465-200-1365-25 I LTC-ISB2-1340_1390_1430_SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1340_1390_1430_1480-SM-LP-1265_1500-235-1383-35 I LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1305_1605-300-1455-35 I LTC-ISB2-1300_1390_1430_1480_1550_1615_1680-SM-LP-1265_1725-460-1495-400 I LTC-ISB2-1300_1390_1430_1480_1550_1615-SM-LP-130_1640-330-1475-38 I LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-400 I LTC-ISB2-1300_1340_1390_1430_1480_1550-SM-LP-1265_1605-340-1435-400 I LTC-ISB2-1300_1340_1390_1430_1480_1550-1615-1680-199 I LTC-ISB2-1300_1340_1390_5M-LP-1265_1420-155-1343-20 I LTC-ISB2-1300_1340_1390-SM-LP-135_1500-145-1428-19 I LTC-ISB2-1300_1340_150-SM-LP-130_110-270-1475-20 I LTC-ISB2-1300_1340_1550-SM-LP-1340_1610-270-1475-20 I LTC-ISB2-1300_1340_1550-SM-LP-1265_1500-235-1383-20 I	1615, 1680 1480, 1550, 1615 1340, 1390, 1430 1300, 1340, 1390, 1430 1480, 1550, 1615, 1680 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1390, 1430, 1480, 1550, 1615, 1680 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550, 1615 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390, 1430, 1480, 1550 1300, 1340, 1390 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480 1390, 1430, 1480	SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640 1265 - 1605 1410 - 1605 1265 - 1420 1355 - 1500 1515 - 1725	150 205 155 200 290 235 300 460 170 330 340 195 155 145 210 100 2270 235	1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1433 1435 1435 1435 1508 1343 1428 1620 1315 1475	[mW] 12 18 20 25 35 35 40 12 38 40 12 38 40 19 20 19 19 18 12 20



Part Number	Ordering Code: LTC-ISB2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP)	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
ASM000801	LTC-ISB2-1615_1680-FS-HP-1575_1725-150-1650-35	1615, 1680	FS	1575 - 1725	150	1650	35
ASM000802	LTC-ISB2 -1480_1550_1615-FS-HP-1435_1640-205-1538-55	1480, 1550, 1615	FS	1435 - 1640	205	1538	55
ASM000803	LTC-ISB2-1340_1390_1430-F5-HP-1310_1465-155-1388-65	1340, 1390, 1430	FS	1310 - 1465	155	1388	65
ASM000804	LTC-ISB2-1300_1340_1390_1430-FS-HP-1265_1465-200-1365-90	1300, 1340, 1390, 1430	FS	1265 - 1465	200	1365	90
ASM000805	LTC-ISB2-1480_1550_1615_1680-FS-HP-1435_1725-290-1580-80	1480, 1550, 1615, 1680	FS	1435 - 1725	290	1580	80
ASM000806	LTC-ISB2-1300_1340_1390_1430_1480-FS-HP-1265_1500-235-1383-115	1300, 1340, 1390, 1430, 1480	FS	1265 - 1500	235	1383	115
ASM000807	LTC-ISB2-1340_1390_1430_1480_1550-FS-HP-1305_1605-300-1455-110	1340, 1390, 1430, 1480, 1550	FS	1305 - 1605	300	1455	110
ASM000808	LTC-ISB2-1300_1390_1480_1550_1615_1680-FS-HP-1265_1725-460-1495-125	1300, 1390, 1480, 1550, 1615, 1680	FS	1265 - 1725	460	1495	125
ASM000809	LTC-ISB2-1480_1550-FS-HP-1435_1605-170-1520-45	1480, 1550	FS	1435 - 1605	170	1520	45
ASM000810	LTC-ISB2-1340_1390_1430_1480_1550_1615-FS-HP-1310_1640-330-1475-120	1340, 1390, 1430, 1480, 1550, 1615	FS	1310 - 1640	330	1475	120
ASM000811	LTC-ISB2-1300_1340_1390_1430_1480_1550-FS-HP-1265_1605-340-1435-130	1300, 1340, 1390, 1430, 1480, 1550	FS	1265 - 1605	340	1435	130
ASM000812	LTC-ISB2-1430_1480_1550-FS-HP-1410_1605-195-1508-60	1430, 1480, 1550	FS	1410 - 1605	195	1508	60
ASM000813	LTC-ISB2-1300_1340_1390-FS-HP-1265_1420-155-1343-70	1300, 1340, 1390	FS	1265 - 1420	155	1343	70
ASM000814	LTC-ISB2-1390_1430_1480-FS-HP-1355_1500-145-1428-65	1390, 1430, 1480	FS	1355 - 1500	145	1428	65
ASM000815	LTC-ISB2-1550_1615_1680-FS-HP-1515_1725-210-1620-55	1550, 1615, 1680	FS	1515 - 1725	210	1620	55
ASM000816	LTC-ISB2-1300_1340-FS-HP-1265_1365-100-1315-50	1300, 1340	FS	1265 - 1365	100	1315	50
ASM000817	LTC-ISB2-1390_1480_1550-FS-HP-1340_1610-270-1475-60	1390, 1480, 1550	FS	1340 - 1610	270	1475	60
ASM000818	LTC-ISB2-1300_1390_1480-FS-HP-1265_1500-235-1383-70	1300, 1390, 1480	FS	1265 - 1500	235	1383	70
ASM000819	LTC-ISB2-1390_1480_1550_1615_1680-FS-HP-1340_1725-385-1533-100	1390, 1480, 1550, 1615, 1680	FS	1340 - 1725	385	1533	100
ASM000820	LTC-ISB2-1550_1615-FS-HP-1530_1630-100-1580-30	1550, 1615	FS	1530 - 1630	100	1580	30