

SUNSTAR商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有10多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌IC芯片和电子元器件的连锁经营综合性国际公司。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。专业以现代信息产业（计算机、通讯及传感器）三大支柱之一的传感器为主营业务，专业经营各类传感器的代理、销售生产、网络信息、科技图书资料及配套产品设计、工程开发。我们的专业网站——中国传感器科技信息网（全球传感器数据库）www.SENSOR-IC.COM 服务于全球高科技生产商及贸易商，为企业科技产品开发提供技术交流平台。欢迎各厂商互通有无、交换信息、交换链接、发布寻求代理信息。欢迎国外高科技传感器、变送器、执行器、自动控制产品厂商介绍产品到中国，共同开拓市场。本网站是关于各种传感器-变送器-仪器仪表及工业自动化大型专业网站，深入到工业控制、系统工程计 测量、自动化、安防报警、消费电子等众多领域，把最新的传感器-变送器-仪器仪表买卖信息，最新技术供求，最新采购商，行业动态，发展方向，最新的技术应用和市场资讯及时的传递给广大科技开发、科学研究、产品设计人员。本网站已成功为石油、化工、电力、医药、生物、航空、航天、国防、能源、冶金、电子、工业、农业、交通、汽车、矿山、煤炭、纺织、信息、通信、IT、安防、环保、印刷、科研、气象、仪器仪表等领域从事科学研究、产品设计、开发、生产制造的科技人员、管理人员、和采购人员提供满意服务。我公司专业生产、代理、经销、销售各种传感器、变送器、敏感元器件、开关、执行器、仪器仪表、自动化控制系统：专业从事设计、生产、销售各种传感器、变送器、各种测控仪表、热工仪表、现场控制器、计算机控制系统、数据采集系统、各类环境监控系统、专用控制系统应用软件以及嵌入式系统开发及应用等工作。如热敏电阻、压敏电阻、温度传感器、温度变送器、湿度传感器、湿度变送器、气体传感器、气体变送器、压力传感器、压力变送、称重传感器、物（液）位传感器、物（液）位变送器、流量传感器、流量变送器、电流（压）传感器、溶氧传感器、霍尔传感器、图像传感器、超声波传感器、位移传感器、速度传感器、加速度传感器、扭距传感器、红外传感器、紫外传感器、火焰传感器、激光传感器、振动传感器、轴角传感器、光电传感器、接近传感器、干簧管传感器、继电器传感器、微型电泵、磁敏（阻）传感器、压力开关、接近开关、光电开关、色标传感器、光纤传感器、齿轮测速传感器、时间继电器、计数器、计米器、温控仪、固态继电器、调压模块、电磁铁、电压表、电流表等特殊传感器。同时承接传感器应用电路、产品设计和自动化工程项目。

欢迎索取免费详细资料、设计指南和光盘；产品凡多，未能尽录，欢迎来电查询。

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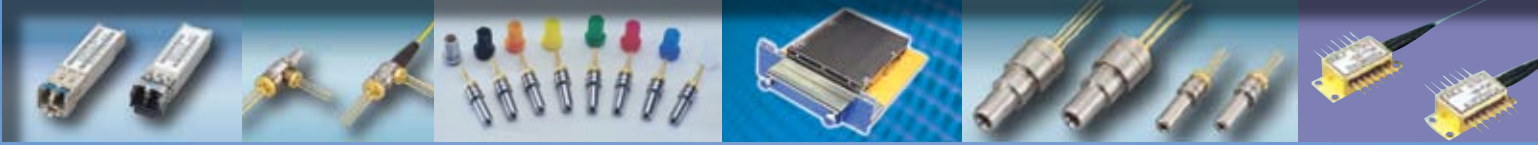
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Putting your communications needs in the spotlight

Sumitomo Electric Industries, the market leader in optical and wireless components, provides communication system equipment companies with the broadest array of high-performance optical and wireless communication products, technical expertise, and unmatched service and support.

Focusing on advancing your capabilities

Our extensive product portfolio provides support for established and emerging communications standards, from Fast Ethernet to 100G Ethernet. It includes transceivers from the popular SFP package to the newest CFP modules, high-performance lasers, and receivers. We support reaches from short to long haul, DWDM, and CWDM.

These products, as well as our flexibility in meeting customer requirements, play an essential part in supporting the global communications infrastructure, helping customers shorten design cycles and get to market faster.

Our advanced technology is the result of world-class research and manufacturing capabilities in optical and mobile technologies. Product development, manufacturing, quality assurance, sales engineering and purchasing activities, also serve to expand and strengthen our product portfolio.

Helping you shine

We are committed to remaining at the forefront of the revolution in information and communications to meet the evolving demands of the broadband communications market and high-speed mobile communications. Our focus on vertical integration from fab to finished product ensures exceptional quality, optimum integration, advanced technology, and industry-leading levels of reliability.

SFP Transceivers



- Enhanced diagnostics on all modules
- Up to 80-km transmission available on all modules
- Complete family of SONET OC-3, OC-12, and OC-48 compliant modules
- Complete family of Gigabit Ethernet and Fibre Channel modules
- Complete family of CWDM SFPs
- Standard, extended, and industrial temperature ranges available
- MSA standard package with LC interface

SFP OC-3 SFP Transceivers

Part No.	Application	LD	PD	Ind Temp	Pout	RX Sens
SCP6G01	SR/IR-1	1310 nm FP	PIN	Yes	-15 to -8	-28 to -8
SCP6G11	LR-1	1310 nm DFB	PIN	Yes	-5 to 0	-34 to -8
SCP6G61	LR-2	1550 nm DFB	PIN	Yes	-5 to 0	-34 to -10
SCP6G91	OSC	1550 nm DFB	APD	No	0 to 5	-42

SFP OC-12

Part No.	Application	LD	PD	Ind Temp	Pout	RX Sens
SCP6G02	SR/IR-1	1310 nm FP	PIN	Yes	-15 to -8	-28 to -8
SCP6G12	LR-1	1310 nm DFB	PIN	Yes	-3 to +2	-28 to -8
SCP6G62	LR-2	1550 nm DFB	PIN	Yes	-3 to +2	-28 to -8

SFP OC-48

Part No.	Application	LD	PD	Ind Temp	Pout	RX Sens
SCP6G28	SR-1	1310 nm FP	PIN	Yes	-10 to -3	-19 to -3
SCP6G08	IR-1	1310 nm DFB	PIN	Yes	-5 to 0	-18 to 0
SCP6G18	LR-1	1310 nm DFB	APD	Yes	-2 to +3	-27 to -9
SCP6G78	LR-2	1550 nm DFB	APD	Yes	-2 to +3	-28 to -9
SGP6G95	Multirate IR-1	1310 nm DFB	PIN	Yes	-5 to 0	-19 to -3
SGP6G96	Multirate SR-1	1310 nm DFB	PIN	Yes	-9 to -3	-19 to -3

SFP 125 Mb/s Fast Ethernet Transceivers

Part No.	Application	LD	PD	Ind Temp	Pout	RX Sens
SCP6G03	100Base-LX10	1310 nm FP	PIN	Yes	-15 to -8	-28 to -8
SCP6G13	100Base-EX	1310 nm DFB	PIN	Yes	-5 to 0	-28 to -8
SCP6G63	100Base-ZX	1550 nm DFB	PIN	Yes	-3 to +2	-30 to -8

SFP Transceivers

SFP 1.250 Gb/Gigabit Ethernet Transceivers

Part No.	Application	LD	PD	Ind Temp	Pout	RX Sens
SCP6G44	10 km	1310 nm FP	PIN	Yes	-9.5 to -3	-20.5 to -3
SCP6G14	40 km	1310 nm DFB	PIN	Yes	-4.5 to 0	-22.5 to 0
SCP6G74	80 km	1550 nm DFB	PIN	Yes	-2 to +3	-24 to -0
SCP6G94	80 km	1550 nm DFB	PIN	Yes	0 to +5	-24 to 0

3.07 Gb/s CPRI SFP Transceivers

Part No.	LD	PD	Ext Temp	Ind Temp	Pout	RX Sens
SCP6G29	1310 nm FP	PIN	Yes	Yes	-10 to -3	-18 to -3
SCP6G09	1310 nm DFB	PIN	Yes	Yes	-5 to 0	-18 to 0
SCP6G19	1550 nm DFB	APD	Yes	Yes	-3 to +2	-24 to -9

CWDM SFP Transceivers | 18 Standard CWDM Wavelengths from 1270 to 1610 nm

Part No.	Bit Rate	Link Budget	LD	PD	Pout	Pr
SCP6NK1	OC-3	34dB	DFB	PIN	0 to +5	-34 to -3
SCP6NL2	OC-12	28dB	DFB	PIN	0 to +5	-28 to -8
SCP6NB8	OC-48	18dB	DFB	PIN	0 to +5	-18 to 0
SCP6NE8	OC-48	28dB	DFB	APD	0 to +5	-28 to -9
SCP6NG4	GbE	24dB	DFB	PIN	0 to +5	-24 to 0
SCP6NP4	GbE	32dB	DFB	APD	+1 to +5	-31 to -8

SFP+ Transceivers



- Hot pluggable 10 Gb/s serial optical interface
- High quality optical sub-assemblies
- 850-nm VCSEL for MMF application
- 1310-nm FP for LRM application
- 1310-nm DFB for 10-km transmission
- SFP+ MSA compliant
- Duplex LC receptacle
- 2-wire interface for management and diagnostics
- Standard and extended temperature ranges available
- Low power consumption (<1 W)

SFP+ Multimode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS
SPP5100SR	10GbE-SR	850 nm VCSEL	300 m	0 to 70	6/6
SPP5100SX	2/4/8G FC	850 nm VCSEL	150 m	0 to 70	6/6
SPP5200SR-M	10GbE-SR	850 nm VCSEL	300 m	-5 to 85	6/6
SPP5200SX-M	2/4/8G FC	850 nm VCSEL	150 m	-5 to 85	6/6
SPP5400SX*	4/8/16G FC	850 nm VCSEL	100 m	0 to 70	6/6

*16G FC in development

SFP+ Single-Mode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS
SPP5100LR	10GbE-LR	1310 nm DFB	10 km	0 to 70	6/6
SPP5100LX	2/4/8G FC	1310 nm DFB	10 km	0 to 70	6/6
SPP5200LR-M	10GbE-LR	1310 nm DFB	10 km	-5 to 85	6/6
SPP5200LX-M	2/4/8G FC	1310 nm DFB	10 km	-5 to 85	6/6
SPP5400LX*	4/8/16G FC	1310 nm DFB	10 km	0 to 70	6/6
SPP5100ER	10GbE-ER	1550 nm EA-DFB	40 km	0 to 70	6/6
SPP5100ZR	10GbE-ZR	1550 nm EA-DFB	80 km	0 to 70	6/6
SPP5100DM	10GbE-ZR	DWDM EA-DFB	80 km	0 to 70	6/6
SPP5100CP	10GbE-ER	CWDM EA-DFB	40 km	0 to 70	6/6

*16G FC in development

6.14 Gb/s CPRI SFP+ Transceivers

Part No.	LD	PD	Ext Temp	Ind Temp	Pout	RX Sens	Note
SPP5200SH	850 nm VCSEL	PIN	Yes	Yes	-5.2 min	-11.2 min	in OMA
SPP5200LH	1310 nm DFB	PIN	Yes	No	-5.2 min	-11.2 min	in OMA

XFP Transceivers



- Hot pluggable 10-Gb/s serial optical interface
- In-house high quality optical sub-assemblies
- 1550-nm EML for 40 and 80-km transmission
- 1310-nm DFB for 10-km transmission
- CWDM and DWDM EA-DFB
- XFP MSA compliant
- 2-wire interface for digital diagnostics and management
- Multiprotocol: SONET, GbE, 10G FC

XFP Multimode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	DDM
SXP3100SX	10GbE-SR	850 nm VCSEL	MMF 300m	-5 to 85	6/6	Yes

XFP Single-Mode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	DDM
SXP3100LX	10GbE-LR	1310 nm DFB	10 km	-5 to 70	6/6	Yes
SXP3100LX-M	10GbE-LR	1310 nm DFB	10 km	-5 to 85	6/6	Yes
SXP3100NV	SONET SR-1/10GbE-LR	1310 nm DFB	10 km	-5 to 70	6/6	Yes
SXP3100NV-M	SONET SR-1/10GbE-LR	1310 nm DFB	10 km	-5 to 85	6/6	Yes
SXP3101EX-03	10GbE-ER	1550 nm EA-DFB	40 km	-5 to 70	5/6	Yes
SXP3100EX	10GbE-ER	1550 nm EA-DFB	40 km	-5 to 70	6/6	Yes
SXP3100EX-M	10GbE-ER	1550 nm EA-DFB	40 km	-5 to 85	6/6	Yes
SXP3012EX-W	10GbE-ER	1550 nm EA-DFB	40 km	-40 to 85	6/6	Yes
SXP3100S5	SONET IR-2	1550 nm EA-DFB	40 km	-5 to 70	6/6	Yes
SXP3100S5-M	SONET IR-2	1550 nm EA-DFB	40 km	-5 to 85	6/6	Yes
SXP3100SV	SONET IR-2/10GbE-ER	1550 nm EA-DFB	40 km	-5 to 70	6/6	Yes
SXP3100SV-M	SONET IR-2/10GbE-ER	1550 nm EA-DFB	40 km	-5 to 85	6/6	Yes
SXP3012SV-W	SONET IR-2/10GbE-ER	1550 nm EA-DFB	40 km	-40 to 85	6/6	Yes
SXP3102ZX	10GbE-ZR	1550 nm EA-DFB	80 km	-5 to 70	6/6	Yes
SXP3102ZX-M	10GbE-ZR	1550 nm EA-DFB	80 km	-5 to 85	6/6	Yes
SXP3102L2	SONET LR-2	1550 nm EA-DFB	80 km	-5 to 70	6/6	Yes
SXP3102L2-M	SONET LR-2	1550 nm EA-DFB	80 km	-5 to 85	6/6	Yes
SXP3102LV	SONET LR-2/10GbE-ZR	1550 nm EA-DFB	80 km	-5 to 70	6/6	Yes
SXP3102LV-M	SONET LR-2/10GbE-ZR	1550 nm EA-DFB	80 km	-5 to 85	6/6	Yes

XFP CWDM and DWDM Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	DDM
SXP3102CP	SONET IR-2/10GbE-ER	CWDM EA-DFB	40 km	-5 to 70	6/6	Yes
SXP3102CP-W	SONET IR-2/10GbE-ER	CWDM EA-DFB	40 km	-5 to 85	6/6	Yes
SXP3102CA	SONET LR-2/10GbE-ZR	CWDM EA-DFB	70 km	-5 to 70	6/6	Yes
SXP3102DA	SONET LR-2/10GbE-ZR	DWDM EA-DFB	80 km	-5 to 70	6/6	Yes
SXP3102DA-M	SONET LR-2/10GbE-ZR	DWDM EA-DFB	80 km	-5 to 85	6/6	Yes

Tunable XFP-E Transceivers



- Hot pluggable 10 Gb/s serial optical interface
- Full C-band tunable operation
- Zero or negative chirp options
- Diagnostic optical monitoring
- 80 km dual rate (SONET OC-192, 10GbE)

Tunable XFP-E Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	DDM
SXP3202ZW	SONET LR-2/10GbE-ZR	Tunable DFB + MZM (Zero chirp)	80 km	-5 to 70	6/6	Yes
SXP3202NW	SONET LR-2/10GbE-ZR	Tunable DFB + MZM (Negative chirp)	80 km	-5 to 70	6/6	Yes

CFP Transceivers



- 40 and 100 Gb/s Ethernet
- CFP MSA-compatible transceivers
- 10 km over SMF
- MDIO for management and diagnostic monitor
- Flat top or integrated heat sink
- IEEE802.3 100GBase-LR4 or 40Gbase-LR4

CFP Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	DDM
SCF0400L4	40GbE-LR4	1310 nm CWDM-DFB	10 km	0 to 70	6/6	Yes
SCF1000L4	100GbE-LR4	1310 nm LAN-WDM EA-DFB	10 km	0 to 70	6/6	Yes

X2 Transceivers



- Hot pluggable 10 Gb/s serial optical interface
- In-house high quality optical sub-assemblies
- 1550-nm EML laser for 40 and 80-km transmission
- 1310-nm DFB for 10-km transmission
- X2 MSA compliant
- Duplex SC receptacle
- Link status interrupt
- Diagnostic optical monitoring
- Low power consumption

X2 Multimode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	Diagnostics
SDX4102LM	10GbE-LRM	1310 nm FP	220 m	0 to 70C	5/6	Yes

X2 Single-Mode Transceivers

Part No.	Type	Laser	Distance	Temp (°C)	RoHS	Diagnostics
SDX4102LR	10GbE-LR	1310 nm DFB	10 km	0 to 70	5/6	Yes
SDX4102FL	LR/10G FC	1310 nm DFB	10 km	0 to 70	5/6	Yes
SDX4101ER	10GbE-ER	1550 nm EA-DFB	40 km	0 to 70	5/6	Yes
SDX4101ZR	10GbE-ZR	1550 nm EA-DFB	80 km	0 to 70	5/6	Yes
SDX4100LR	10GbE-LR	1310 nm DFB	10 km	0 to 70	6/6	Yes
SDX4100FL	LR/10G FC	1310 nm DFB	10 km	0 to 70	6/6	Yes

10 Gb/s EML Lasers



- 10 Gb/s long-haul optical transmission
- Full lineup covering SR-1, IR-1, IR-2, LR-2, and DWDM
- Built-in optical isolator, monitor photodiode, thermistor, and TEC
- 7-pin butterfly package with GPO connector

10 Gb/s EML Lasers

Part No.	Peak Wavelength (nm), Typ.	Pf (dBm), Min.	Extinction Ratio (dB), Min.	Rise Time (ps), Max. 20%-80%	Fall Time (ps), Max. 20%-80%	Fc (GHz) (Min.)	Dispersion (ps/nm)	Dispersion Penalty (dB)
FLD5F20NP	1550	0	10	25	25	10	800	2
FLD5F20NP-C	1550	0	10	25	25	10	1600	2
ELD5401NP-C	1550	1	10	25	25	10	1600	2
ELD5401NP-H	1550	4	10	25	25	10	1600	2
FLD3F10NP	1310	-5	6.5	25	25	10	6.6	1
FLD3F10NP-A	1310	0	8.2	25	25	10	80	1
FLD3F10NP-B	1310	2	8.2	25	25	10	80	1

10 Gb/s DWDM EML Lasers

Series Part No.	Peak Wavelength (nm), Typ.	Pf (dBm), Min.	Extinction Ratio (dB), Min.	Rise Time (ps), Max. 20%-80%	Fall Time (ps), Max. 20%-80%	Fc (GHz) (Min.)	Dispersion (ps/nm)	Dispersion Penalty (dB)
FLD5F20NP-D18 to D60	1529.55 to 1563.05*	-1	10	25	25	10	800	2
FLD5F20NP-E21 to E60	1529.55 to 1560.61*	0	10	25	25	10	1600	2

*±0.1 nm

10 Gb/s EML TOSA



- EML with built-in cooler in compact package
- Low power consumption
- High wavelength stability
- Full line-up covering SR-1, IR-1, IR-2, LR-2, and DWDM applications
- Variety of optical interfaces, including LC, SC, and pigtail
- Available XMD-MSA compliant TOSA with FPC (8-pin)

10 Gb/s EML TOSA

Series Part No.	Peak Wavelength (nm)	Pf (dBm), Min.	Laser Set Temp (°C)	Extinction Ratio (dB), Min.	TEC Power (W) Max.*	Case Temp (°C)	Dispersion (ps/nm)	Dispersion Penalty (dB)	Interface
ELD5401QK-M	1530 to 1565	-1	40	8.2	1.3	0 - 80	800	2	LC
ELD5401QK-N	1530 to 1565	0	40	9	1.3	0 - 80	1600	2	LC
ELD5401QK-P18 to P61	1528.77 to 1563.05*	-1	35 - 45	8.2	2	0 - 80	800	2	LC
ELD5401QK-Q18 to Q61	1528.77 to 1563.05*	0	35 - 45	9	2	0 - 80	1600	2	LC
ELD5401FP-M	1530 to 1565	-1	40	8.2	1.3	0 - 80	800	2	SC
ELD5401FP-N	1530 to 1565	0	40	9	1.3	0 - 80	1600	2	SC
ELD5401FP-P18 to P61	1528.77 to 1563.05*	-1	35 - 45	8.2	2	0 - 80	800	2	SC
ELD5401FP-Q18 to Q61	1528.77 to 1563.05*	0	35 - 45	9	2	0 - 80	1600	2	SC
ELD5401BH-M	1530 to 1565	-1	40	8.2	1.3	0 - 75	800	2	Pigtail
ELD5401BH-N	1530 to 1565	0	40	9	1.3	0 - 75	1600	2	Pigtail
ELD5401BH-P	1528.77 to 1563.05*	-1	35 - 45	8.2	1.3	0 - 75	800	2	Pigtail
ELD5401BH-Q	1528.77 to 1563.05*	0	35 - 45	9	1.3	0 - 75	1600	2	Pigtail
ELD5403QK-M	1530 to 1565	-1	45	8.2	1.3	0 - 90	800	2	LC
ELD5403QK-R	1530 to 1565	-1	45	8.2	1.3	-40 - 90	800	2	LC
ELD5406QK-M	1530 to 1565	-1	45	8.2	1.3	0 - 90	800	2	LC
ELD5406QK-N	1530 to 1565	0	40 - 45	9	1.3	0 - 90	1600	2	LC
ELD5406QK-P	1528.77 to 1563.05*	-1	35 - 45	8.2	2	0 - 90	800	2	LC

*±0.1 nm

10 Gb/s EML TOSA

10 Gb/s EML TOSA

Series Part No.	Peak Wavelength (nm)	Pf (dBm), Min.	Laser Set Temp (°C)	Extinction Ratio (dB), Min.	TEC Power (W) Max.*	Case Temp (°C)	Dispersion (ps/nm)	Dispersion Penalty (dB)	Interface
ELD5406QK-Q	1528.77 to 1563.05*	0	35 - 45	9	2	0 - 90	1600	2	LC
ELD5406QK-R	1530 to 1565	-1	45	8.2	1.3	-40 - 90	800	2	LC
ELD5406QK-S	1530 to 1565	0	40 - 45	9	1.3	-40 - 90	1600	2	LC
ELD5406QK-Txy	1528.77 to 1563.05*	-1	35 - 45	8.2	1.9	-40 - 90	800	2	LC
ELD5406QK-Uxy	1528.77 to 1563.05*	0	35 - 45	9	2	-40 - 90	1600	2	LC
FLD3F10QK-M	1260 to 1360	-5	40	6	1.3	0 - 80	6.6	1	LC
FLD3F10BH-M	1260 to 1360	-5	40	6	1.3	0 - 75	6.6	1	Pigtail
FLD3F10QK-N	1260 to 1360	2	35	6	1.3	0 - 80	70	1	LC
FLD3F10BH-N	1260 to 1360	2	35	6	1.3	0 - 75	70	1	Pigtail

*±0.1 nm

10 Gb/s DML TOSA



- Uncooled 5.6-mm coaxial package
- Sleeve and stem electrically isolated
- XMD-MSA compliant TOSA with FPC
- OC-192-SR1, 10GbE-LR, 10Gb/s x 4 (10GbE-LR4) applications
- LC and SC interfaces available

10 Gb/s DML TOSA

Series Part No.	Application	pF (dBm), Min.	Wavelength (nm)	Extinction Ratio (dB), Typ.	Case Temp. (°C)
SLX2X4F-LP/RH2	10GbE-LR	-2	1310	5	-5 - 85
SLX2X4F-LP	OC-192-SR1	-3	1310	7	-5 - 75
SLX2X4F-LP/RH2-XnnnS	40GbE-LR4	2	1271/1291/1311/1331	5	-5 - 75

40 Gb/s EML Laser



- MSA package for 40 Gb/s
- MI-DFB-LD (Modulator Integrated DFB Laser Diode)
- Integrated modulator driver
- Integrated optical isolator, PIN-PD monitor, thermistor, and TEC
- Differential SMPM (GPPQ) connector for RF signal interface

40 Gb/s EML Laser

Series Part No.	Peak Wavelength (nm)	Pf (dBm), Min.	Laser Set Temp (°C)	Extinction Ratio (dB), Min.	TEC Power (W) Max.*	Case Temp (°C)	Dispersion (ps/nm)	Dispersion Penalty (dB)
ETM5401NF	1530 to 1565	0	25 - 45	8.5	4.0	0 - 75	40	2

2.5 Gb/s DWDM Lasers and 622-Mb/s Supervisory-Channel Lasers



- Directly modulated up to 2.5 Gb/s
- CW for use with external modulator for high speed, long distance applications
- CW with wavelength locker for tight spacing and long distance
- EML integrated laser for very long distance
- Uncooled supervisory channel lasers

DM Lasers

Series Part No.	Peak Wavelength (nm)*	Pf (mW), Min.	dλ (nm), Max.	λ stability (pm/°C)	Dispersion (ps/nm)	Dispersion Penalty (dB), Max.
FLD5F15CX-E	1527.99 to 1563.05	2	0.1	±1	1800	2
FLD5F15CX-J	1527.99 to 1563.05	10	0.1	±1	1800	2
FLD5F15CX-A	1527.99 to 1563.05	10	0.1	±1	3200	2

*±0.1 nm

CW Lasers | Pigtailed with PMF 10 and 40 Gb/s Long-Haul DWDM Transmission Systems | C and L-Band

Series Part No.	Peak Wavelength (nm)*	Pf (mW), Min.	dλ (nm), Max.	λ stability (pm/°C)
FLD5F15CX-H	1528.773-1569.594 [C-band]	40	0.2	±1
FLD5F15CX-L	1570.416-1608.329 [L-band]	40	0.2	±1
FLD5F15CX-K	1528.773-1569.594 [C-band]	20	0.1	±1
FLD5F15CX-N	1570.416-1608.329 [L-band]	20	0.1	±1

*±0.1 nm

2.5 Gb/s Cooled EML Lasers

Series Part No.	Peak Wavelength (nm)*	Pf (mW), Min.	dλ (nm), Max.	Threshold Current (mA)	Laser Set Temp (°C)	Extinction Ratio (dB), Min.	Dispersion (ps/nm)	Dispersion Penalty (dB)
ELD5301CN-A	1530.33-1560.61	1	0.2	2 - 40	15-35	10	6500	1.5
ELD5301CN-E	1530.33-1560.61	1	0.2	2 - 40	15-35	10	10,000	1.5
ELD5301CN-H	1530.33-1560.61	1	0.2	2 - 40	15-35	10	12,800	2

*±0.1 nm

622-Mb/s Uncooled Laser for Supervisory Channel | 4-Pin Coaxial Package

Part No.	Type	Pout	Isolated	Package
SLT1430-S460	1625 nm DFB-LD	3 mW	Aspherical lens cap	5.6 mm can
SLT1430-S850	1510 nm DFB-LD	3 mW	Aspherical lens cap	5.6 mm can
SLT4400-S460	1625nm DFB-LD	2.0 mW	No	Pigtail
SLT4400-S850	1510 nm DFB-LD	2.0 mW	No	Pigtail
SLT4460-S460	1625nm DFB-LD	2.0 mW	Yes	Pigtail
SLT4460-S850	1510 nm DFB-LD	2.0 mW	Yes	Pigtail

2.5 Gb/s CWDM Lasers and 622-Mb/s Supervisory-Channel Lasers



CWDM DFB Lasers | 18 Channels | 4-Pin Coaxial

Series Part No.	Pout (mW)	Data_Rate (Gb/s)	Options	Package Type
SLT1430-XnnnX	5	2.5	Aspherical lens cap	5.6 mm can
SLT1440-XnnnX	4.0	2.5	Aspherical lens with short FL	5.6 mm can
SLT2420-XnnnX	1.5	2.5	SC sleeve	5.6 mm TOSA
SLT2420-XnnnX	1.5	2.5	SC sleeve	5.6 mm TOSA
SLT2470-XnnnX	1.5	2.5	LC sleeve	3.8 mm mini-TOSA
SLT2480-XnnnX	1.5	2.5	LC sleeve with single isolator	3.8 mm mini-TOSA
SLT4410-XnnnX	2.0	2.5	No isolator	5.6 mm with pigtail
SLT4460-XnnnX	2.0	2.5	Single isolator	5.6 mm with pigtail

CWDM DFB Laser | 4-Channel LX4 | 4-Pin Coaxial

Series Part No.	Pout (mW)	Data Rate (Gb/s)	Options	Package Type
SLT2270-XnnnX	1.5	3.125	LC sleeve, no isolator	3.8 mm mini-TOSA
SLT2280-XnnnX	1.5	3.125	LC sleeve with single isolator	3.8 mm mini-TOSA
SLT4210-XnnnX	2.0	3.125	No isolator	5.6 mm with pigtail
SLT4260-XnnnX	2.0	3.125	Single isolator	5.6 mm with pigtail

Analog Lasers



- Economical uncooled lasers designed for return path links.
- InGaAsP/InP, SMQW lasers (Fabry-Perot and DFB) provide excellent distortion performance
- Wide temperature operation from -40 to 85°C RoHS Compliant
- Cooled high power DFBs for forward path and narrowcast applications
- Designed to meet Telcordia (Bellcore) and ITU-T requirements
- RoHS compliant

Cooled Lasers for Forward Path | 14-Pin Butterfly Package with Pigtail

Part No.	Peak Wavelength (nm)	Pf (mW), Min.	CSO (dBc), Max.	CTB (dBc), Max.	CNR (dB), Min.	Channel No.
FLD3F7CZ	1310	8	-60	-65	50	78
FLD3F8CZ	1310	2	-60	-65	50	78

Uncooled Lasers for Return Path | 4-Pin Coaxial Package with Pigtail

Part No.	Type	Pf (mW)	IMD2 (dBc)	IMD3 (dBc)	RIN (dB/Hz)	Isolator	SNon (dBc)	SNoFF (dBc)
SLV3710	1310 nm FP	1	-30	-40	-130	None	-45	-30
SLV4710	1310 nm FP	2	-30	-40	-120	None	-35	-20
SLV4760	1310 nm FP	2	-30	-40	-135	1 stage	-45	-40
SLV4260	1310 nm DFB	2	-40	-55	-145	1 stage	-50	-32
SLV4270	1310 nm DFB	2	-40	-55	-150	2 stage	-60	-52
SLV4460	1550 nm DFB	2	-40	-60	-145	1 stage	-55	-35
SLV4470	1550 nm DFB	2	-40	-55	-150	2 stage	-	-
SLV4460-XnnnX Series	CWDM DFB	2	-40	-50	-145	1 stage	-	-

Lasers for Wireless | 4-Pin Coaxial Package with Pigtail

Part No.	Type	Pout (mW)	IMD3 (dBc)	Isolator
SLW4260	1310 nm DFB	3	-65	1 stage
SLW4760	1310 nm FP	2	-55	1 stage
SLW4270	1310 nm DFB	3	-65	2 stage
SLW4460	1550 nm DFB	3	-65	1 stage
SLW4860	1310 nm DFB	3	-65	1 stage
SLW4470	1550 nm DFB	3	-65	2 stage
SLW4460-XnnnX Series	CWDM DFB	3	-65	1 stage
SLW4470-XnnnX Series	CWDM DFB	3	-65	2 stage

Analog Lasers

Analog Photodiodes | 3-Pin Coaxial Package with Pigtail

Part No.	Type	Responsivity (A/W)	Fc (dBc)	Cp (dBc)	IMD2 (dBc)	IMD3 (dBc)	Dark Current (nA)
SPV3200	InGaAs/InP	0.90	> 2.5	< 0.8	-70	-80	<1
SPV3210	InGaAs/InP	0.90	> 2.5	< 0.8	-70	-80	<1

Digital Lasers up to 2.5 Gb/s

Coaxial Fabry-Perot Lasers | 4-Pin 5.6-mm TO Can

Part No.	Wavelength	Pout (mW)	Data Rate	Package Option
SLT1100	1310 nm	5	622 Mb/s	Flat window
SLT1130	1310 nm	5	2.5 Gb/s	Aspherical lens cap
SLT1730	1310 nm	8	2.5 Gb/s	Aspherical lens cap
SLT1740	1310 nm	8	2.5 Gb/s	Aspherical lens cap with short FL
SLT1300	1550 nm	5	622 Mb/s	Flat window
SLT1330	1550 nm	5	622 Mb/s	Aspherical lens cap

Coaxial DFB Lasers | 4-Pin 5.6-mm TO Can

Part No.	Wavelength	Pout (mW)	Data Rate (Gb/s)	Package Option
SLT1200	1310 nm	7	2.5	Flat window
SLT1230	1310 nm	7	2.5	Aspherical lens cap
SLT1240	1310 nm	7	2.5	Aspherical lens cap with short FL
SLT12D0	1310 nm	7	2.5	Ball lens
SLT1830	1310 nm	7	2.5	Aspherical lens cap
SLT1840	1310 nm	5	2.5	Aspherical lens cap
SLT1436-G120	1490 nm	6	2.5	Aspherical lens cap
SLT1446-G120	1490 nm	6	2.5	Aspherical lens cap with short FL
SLT1400	1550 nm	5	2.5	Flat window
SLT1430	1550 nm	3	2.5	Aspherical lens cap
SLT1440	1550 nm	5	2.5	Aspherical lens cap with short FL
SLT14D0	1550 nm	5	2.5	Ball lens

TOSA | 5.6 mm Package | SC Sleeve

Part No.	Type	Wavelength	Pout (mW)	Data Rate
SLT2000-CN	FP	1310 nm	0.16	155 Mb/s
SLT2110-CN	FP	1310 nm	0.4	1.25 Gb/s
SLT2220-CN	DFB	1310 nm	1.5	2.5 Gb/s

Digital Lasers up to 2.5 Gb/s

Mini-TOSA | 3.8 mm Package | LC Sleeve

Part No.	Type	Wavelength	Pout (mW)	Data Rate (Gb/s)
SLT2070-LN	FP	1310 nm	0.16	2.5
SLT2170-LN	FP	1310 nm	0.4	1.25
SLT2770-LN	FP	1310 nm	0.4	2.5
SLT2A70-LR	FP	1310 nm	0.4	4.25
SLT2270-LN	DFB	1310 nm	1.5	2.5
SLT2280-LN	DFB	1310 nm	1.5	2.5
SLT2880-LN	DFB	1310 nm	2.5	2.5
SLT2880-LR	DFB	1310 nm	0.4	4.25
SLT2470-LN	DFB	1550 nm	1.5	2.5
SLT2480-LN	DFB	1550 nm	1.5	2.5
SLT2490-LN	DFB	1550 nm	1.5	2.5

Pigtailed Coaxial Fabry-Perot Lasers

Part No.	Wavelength	Pout (mW)	Data Rate	Isolated
SLT3000	1310 nm	0.2	622 Mb/s	No
SLT3110	1310 nm	0.5	622 Mb/s	No
SLT3120	1310 nm	0.4	2.5 Gb/s	No
SLT4100	1310 nm	1.0	622 Mb/s	No
SLT4110	1310 nm	2.0	622 Mb/s	No
SLT4710	1310 nm	3.0	1.25 Gb/s	No
SLT4760	1310 nm	3.0	1.25 Gb/s	Yes
SLT4310	1550 nm	2.0	2.5 Gb/s	No
SLT4360	1550 nm	2.0	2.5 Gb/s	Yes

Pigtailed Coaxial DFB Lasers

Part No.	Wavelength	Pout (mW)	Data Rate (Gb/s)	Isolated
SLT4210	1310 nm	2.0	2.5	No
SLT4260	1310 nm	2.0	2.5	Yes
SLT4810	1310 nm	3.0	2.5	No
SLT4860	1310 nm	3.0	2.5	Yes
SLT4410	1550 nm	2.0	2.5	No
SLT4440	1550 nm	4.0	2.5	Yes
SLT4460	1550 nm	2.0	2.5	Yes
SLT4210	1310 nm	2.0	2.5	No

Digital PIN Photodiodes up to 2.5 Gb/s

PIN Photodiodes | 3-Pin Coaxial Package

Part No.	Type	Responsivity (A/W)	Cp (pF)	Interface
SPT2400	InGaAs	0.85	<1.7	FC or SC
SPT2401-D	InGaAs	0.85	<1.7	FC
SPT3200	InGaAs	0.9	0.6	Pigtail
SPT3400	InGaAs	0.9	<1.7	Pigtail
SPT3900	InGaAs	0.8	<1.7	Pigtail

10 Gb/s PIN Coaxial Mini-ROSAs



- Complete package – PIN, preamp, and pigtail, SC, or LC sleeve
- High sensitivity and wide dynamic range
- High gain and high transimpedance
- Excellent overload performance
- XMD compliant package available with FPC
- Single 3.3 V supply
- Sleeve and stem electrically isolated

10 Gb/s PIN Coaxial Mini-ROSAs

Part No.	Spot Size (um)	Fc (MHz)	Zt (kΩ)	Noise (pA/√Hz)	Input Power (dBm)	Interface	Application
SRD2145-LG1	30	10,000	2	10	-19		
SRD2145-LG3	30	8500	6	8	-19		
SRD2145-LG4	30	11,000	2.3	8	-19		
SRD2146-LH4	30	11,000	2.3	8	-19		Designed for 10GbE-LRM
SRD2142-LG1	30	10,000	2	10	-19		
SRD2245-LZ3	30	7500	3.5	14.5	-15.5	LC	Designed for 10GbE-LRM
SRD2245-CG3	30	7500	3.5	14.5	-15.5	SC	Designed for 10GbE-LRM
SRD4142-CS1	30	10,000	2	10	-20	Pigtail	300 pin TRP

10 Gb/s Receivers



- Compact 9-pin or 17-pin coplanar MSA package
- High sensitivity and excellent overload performance
- High transimpedance gain
- Threshold control function
- Maximum output voltage switching: 180 mVpp (single ended), 360 mV (differential)
- Response wavelength: 1270 to 1620 nm
- Operating case temperature: -5°C to 75°C
- Single 3.3 V supply voltage

10 Gb/s High-Gain, High-Sensitivity Receivers

High Transimpedance Gain : 4.5 k Ω (Single Ended), 9 k Ω (Differential)

Maximum Output Voltage Switching: 180 mVpp (Single Ended), 360 mV (Differential)

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k Ω), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1404GW	PIN	1	4.5	9	-20.5	0	9 pin
ERP1404GT	PIN	1	4.5	9	-20.5	0	17 pin
ERA1404GW	APD	0.9	4.5	8	-28	0	9 pin
ERA1404GT	APD	0.9	4.5	8	-28	0	17 pin
ERA1404PW	APD	0.9	4.5	7	-28	0	XMD FPC

10 Gb/s Linear Receivers

Transimpedance Gain: 0.9 k Ω (Single Ended), 1.8 k Ω (Differential)

Maximum Output Voltage Swing: 550 mVpp (Single Ended), 1100 mV (Differential) | PIN

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k Ω), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1402GW	PIN	1	0.9	9	-20	0	9-pin
ERP1402GT	PIN	1	0.9	9	-20	0	17-pin
ERA1402GW	APD	0.9	0.9	8	-27.5	0	9-pin
ERA1402GT	APD	0.9	0.9	8	-27.5	0	17-pin

10 Gb/s Linear AGC Receivers

Maximum Output Voltage Swing: 550 mVpp (Single Ended), 1100 mV (Differential)

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k Ω), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1405GW		1	6	8.5	-19	3	9-pin
ERP1405GT		1	6	8.5	-19	3	17-pin
ERA1405GW	APD	0.9	6	7	-28	0	9-pin
ERA1405GT	APD	0.9	6	7	-28	0	17-pin
ERA1405PW	APD	0.9	6	7	-28	0	8-pin

10 Gb/s Receivers

10 Gb/s Receivers with VOA

Transimpedance Gain: 0.9 k Ω (Single Ended), 1.8 k Ω (Differential)

Maximum Output Voltage Swing: 550 mVpp (Single Ended), 1100 mV (Differential) | 20 dB VOA Attenuation Range

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k Ω), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERA1452GT	APD	0.9	0.9	8	-27.5	0	17-pin
ERA1453GT	APD	0.9	1.5	7	-28	0	17-pin
ERA1454GT	APD	0.9	4.5	8	-28	0	17-pin
ERA1455GT	APD	0.9	6	7	-28	0	17-pin

10 Gb/s Mid-Gain Receivers

Transimpedance Gain: 1.5 k Ω (Single Ended), 3 k Ω (Differential)

Maximum Output Voltage Swing: 600 mVpp (Single Ended), 1200 mV (Differential)

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k Ω), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1403GW	PIN	1	1.5	8	-20	0	9-pin
ERP1403GT	PIN	1	1.5	8	-20	0	17-pin
ERA1403GW	APD	0.9	1.5	7	-28	0	9-pin
ERA1403GT	APD	0.9	1.5	7	-28	0	17-pin

2.5 Gb/s Mini-DIL Receivers



- Mini-DIL package type preamplifier modules
- Through hole or board mount package
- Built-in InGaAs APD and GaAs IC preamplifier
- Bandwidth: 2.2 GHz min.
- Minimum sensitivity: -34dBm typ.
- Overload input power: -5dBm min.
- Wide operating temperature: -40°C to 85°C

2.5 Gb/s Mini-DIL Receivers

Part No.	Responsivity (A/W), Typ.	Transimpedance Zt (kΩ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Application Range
FRM5W234BS	0.85	2.6	1.9	-35	-5	156 Mb/s to 2.7 Gb/s

2.5 Gb/s Coaxial Receivers



- 5-pin coaxial compact package with LC receptacle
- APD and PIN receivers
- Built-in InGaAs PD and 3.3V GaAs preamplifier IC
- Differential output

1.25/2.5 Gb/s APD Coaxial Receivers, LC

Part No.	Responsivity (A/W), Typ.	Transimpedance Zt (kΩ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Data Rate (Gb/s)
ERA2303PZ	0.85	0.6	2.1	-33	-8	2.5
ERA2355PZ	0.85	2.6	2.0	-34	-5	2.5 for DWDM
ERA1302PZ	0.85	0.88	1.0	-34	-7	1.25 for Burst Mode

2.5 Gb/s PIN Preamp Coaxial Receivers

Part No.	Responsivity (A/W), Typ.	Transimpedance Zt (kΩ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Data Rate (Gb/s)
FRM3Z234LY	0.85	2.6	1.8	-26	0	156 Mb/s to 2.7 Gb/s
FRM3Z234HY	0.85	2.6	1.8	-26	0	156 Mb/s to 2.7 Gb/s

2.5 Gb/s APD Preamp Coaxial Receivers, Pigtailed

Part No.	Responsivity (A/W), Typ.	Transimpedance Zt (kΩ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Data Rate (Gb/s)
FRM5W234LY	0.85	2.6	1.8	-35	-5	156 Mb/s to 2.7 Gb/s DWDM
FRM5W234HY	0.85	2.6	1.8	-35	-5	156 Mb/s to 2.7 Gb/s DWDM

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SUNSTAR商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有10多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌IC芯片和电子元器件的连锁经营综合性国际公司。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。专业以现代信息产业（计算机、通讯及传感器）三大支柱之一的传感器为主营业务，专业经营各类传感器的代理、销售生产、网络信息、科技图书资料及配套产品设计、工程开发。我们的专业网站——中国传感器科技信息网（全球传感器数据库）www.SENSOR-IC.COM 服务于全球高科技生产商及贸易商，为企业科技产品开发提供技术交流平台。欢迎各厂商互通有无、交换信息、交换链接、发布寻求代理信息。欢迎国外高科技传感器、变送器、执行器、自动控制产品厂商介绍产品到中国，共同开拓市场。本网站是关于各种传感器-变送器-仪器仪表及工业自动化大型专业网站，深入到工业控制、系统工程计 测量、自动化、安防报警、消费电子等众多领域，把最新的传感器-变送器-仪器仪表买卖信息，最新技术供求，最新采购商，行业动态，发展方向，最新的技术应用和市场资讯及时的传递给广大科技开发、科学研究、产品设计人员。本网站已成功为石油、化工、电力、医药、生物、航空、航天、国防、能源、冶金、电子、工业、农业、交通、汽车、矿山、煤炭、纺织、信息、通信、IT、安防、环保、印刷、科研、气象、仪器仪表等领域从事科学研究、产品设计、开发、生产制造的科技人员、管理人员、和采购人员提供满意服务。我公司专业生产、代理、经销、销售各种传感器、变送器、敏感元器件、开关、执行器、仪器仪表、自动化控制系统：专业从事设计、生产、销售各种传感器、变送器、各种测控仪表、热工仪表、现场控制器、计算机控制系统、数据采集系统、各类环境监控系统、专用控制系统应用软件以及嵌入式系统开发及应用等工作。如热敏电阻、压敏电阻、温度传感器、温度变送器、湿度传感器、湿度变送器、气体传感器、气体变送器、压力传感器、压力变送、称重传感器、物（液）位传感器、物（液）位变送器、流量传感器、流量变送器、电流（压）传感器、溶氧传感器、霍尔传感器、图像传感器、超声波传感器、位移传感器、速度传感器、加速度传感器、扭距传感器、红外传感器、紫外传感器、火焰传感器、激光传感器、振动传感器、轴角传感器、光电传感器、接近传感器、干簧管传感器、继电器传感器、微型电泵、磁敏（阻）传感器、压力开关、接近开关、光电开关、色标传感器、光纤传感器、齿轮测速传感器、时间继电器、计数器、计米器、温控仪、固态继电器、调压模块、电磁铁、电压表、电流表等特殊传感器。同时承接传感器应用电路、产品设计和自动化工程项目。

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