

AVAGO Sensors and Transceivers

RoHS Compliant This product is RoHS compliant.



Opto Components

Avago



Avago Technologies is the world's leading provider of fiber optic transmitters, receivers and transceivers for Networking and Storage solutions. Avago Technologies offers unmatched quality with high-volume, low-cost manufacturing techniques.

DIGITAL PROXIMITY AND ANALOG AMBIENT LIGHT SENSOR

Features:

- Integrated module with built-in IR LED, IR Detector, Digital Signal Conditioning ASIC and Analog ALS
- Package size: L 6.1mm x W 3.9mm x H 1.75mm
- Sensor power supply voltage range: 1.7V to 2.5V
- I2C Bus power supply voltage range: 1.7V to 3.6V
- Broad VLED range for PS: 2.5V to 5V
- PS Shutdown Current 1µA Typical
- ALS approximate the Human Eye response
- Low sensitivity variation across various light sources
- ALS Output linearity up-to 5k Lux range
- Operational under sunlight (PS)
- Artificial light immunity
- Low crosstalk between Emitter and Detector
- Programmable LED driving current and burst pulse control (PS)
- Interrupt logic with Programmable Threshold
- Lead-free and ROHS Compliant

Applications:

- PDA and mobile phones
- Portable and Handheld devices
- Personal Computers/Notebooks
- Amusement/Games/Vending Machines
- Contactless Switches



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For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Avago Part No.	Peak Wavelength	Max. Light Current	Max. Dark Current	Max. Rise Time	Max. Fall Time	Price Each			
							1	25	100	250
630-APDS-9801	APDS-9801	940nm	83µA	300nA	1000ns	300ns	3.85	2.80	2.52	2.45

SIGNAL CONDITIONING IC OPTICAL PROXIMITY SENSORS WITH DIGITAL I2C INTERFACE

Features:

- Low power consumption
- Complete shutdown mode
- Supply voltage : 2.4V to 3.6V
- Operational in sunlight conditions up to 100klux (with HSDL-9100)
- Artificial light immunity
- Analog and Digital output available
- Wide bandwidth Trans-impedance amplifier
- External capacitor and resistor for integration and gain controls
- Flexibility to enhance detection distance up to 200mm with HSDL-9100 or further with external discrete pair
- Small 2mm x 2mm QFN 8-pin package
- Design flexibility to pair with Avago Proximity Sensors or discrete pair solution

Applications:

- PDA and mobile phones
- Digital Camera
- Portable and Handheld devices
- Personal Computers/Notebooks
- Amusement/Games/Vending Machines
- Industrial Automation
- Contactless Switches
- Sanitary Automation



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MOUSER STOCK NO.	Avago Part No.	Package	Operating Freq. (GHz)	Supply Voltage	Supply Current (mA)	Price Each			
						1	25	100	500
630-APDS-9702-020	APDS-9702-020	QFN-8	1.5 - 2.3	5	50	2.48	1.80	1.62	1.53

FIBER OPTIC TRANSCEIVERS

Avago Technologies portfolio of optical transceivers include ATM/SONET, Ethernet, Storage, Parallel and WDM Transceivers

Avago Technologies is the leading supplier of fiber optic transceivers, with manufacturing and testing procedures that produce the industry's most reliable devices. Avago's broad portfolio of Ethernet, SONET and Fibre Channel transceivers supports all speeds and includes transmitters and receivers for industrial and automotive applications. The company's support and order fulfillment organizations provide unmatched service and delivery worldwide.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Avago Part No.	Shield Option	Type	Wavelength	Signal Rate	Pulse Width Variation	Duty Cycle Distortion	Forward Current	Price Each			
									1	25	100	500
630-HFBR-3810Z	HFBR-3810Z	no	class 1 laser	650nm	DC-10Mb/s	80-120ns	-10-+10ns	60mA	17.18	14.18	12.89	12.03
630-HFBR-3810MSZ	HFBR-3810MSZ	yes	class 1 laser	650nm	DC-10Mb/s	80-120ns	-10-+10ns	60mA	19.64	16.20	14.73	13.75



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Avago Part No.	Pkg.	Protocol Support	Media Type	Data Rate (Max.)	Reach	Operating Wavelength	Transmitter	Price Each				
									1	25	100	500	
630-AFBR-5972Z	AFBR-5972Z	-	Ethernet	-	125Mb/s	-	650nm	LED	37.20	29.76	27.91	25.11	
Description													
630-AFBR-4526Z	AFBR-4526Z			Plastic optical fiber duplex connector for AFBR-5972Z						1.86	1.40	1.24	1.05
630-AFBR-5803AZ	AFBR-5803AZ	1x9	Ethernet	Multi-mode	100Mb/s	2km	1310nm	LED	33.00	27.23	24.75	23.10	
630-AFBR-5803TZ	AFBR-5803TZ	1x9	Ethernet	Multi-mode	100Mb/s	2km	1310nm	LED	30.00	24.75	22.50	21.00	
630-AFBR-5803Z	AFBR-5803Z	1x9	Ethernet	Multi-mode	100Mb/s	2km	1310nm	LED	30.00	24.75	22.50	21.00	
630-AFBR-5805Z	AFBR-5805Z	1x9	SONET / SDH	Multi-mode	155Mb/s	2km	1310nm	LED	30.00	24.75	22.50	21.00	
630-AFCT-5805BZ	AFCT-5805BZ	1x9	SONET / SDH	Single-mode	155Mb/s	15km	1310nm	FP Laser	102.38	84.46	76.79	71.67	
630-AFBR-5903EZ	AFBR-5903EZ	SFF	Ethernet	Multi-mode	100Mb/s	2km	1310nm	LED	52.00	42.90	39.00	36.40	
630-HFBR-5961ALZ	HFBR-5961ALZ	SFF	Ethernet	Multi-mode	100Mb/s	2km	1310nm	LED	61.60	50.82	46.20	43.12	
630-AFBR-5921ALZ	AFBR-5921ALZ	SFF	Fibre Channel	Multi-mode	2.125Gb/s	300m	850nm	VCSEL	47.00	38.78	35.25	32.90	
630-ABCU-5710RZ	ABCU-5710RZ	SFP	Ethernet	Copper	1Gb/s	100m	- - -	- - -	102.00	84.15	76.50	71.40	
630-AFBR-5710PZ	AFBR-5710PZ	SFP	Ethernet	Multi-mode	1Gb/s	550m	850nm	VCSEL	47.00	38.78	35.25	32.90	
630-AFBR-5715PZ	AFBR-5715PZ	SFP	Ethernet	Multi-mode	1Gb/s	550m	850nm	VCSEL	49.00	40.43	36.75	34.30	
630-AFCT-5710PZ	AFCT-5710PZ	SFP	Ethernet	Single-mode	1Gb/s	10km	1310nm	FP Laser	96.00	79.20	72.00	67.20	
630-AFCT-5715PZ	AFCT-5715PZ	SFP	Ethernet	Single-mode	1Gb/s	10km	1310nm	FP Laser	100.00	82.50	75.00	70.00	
630-AFBR-57R5AEZ	AFBR-57R5AEZ	SFP	Fibre Channel	Multi-mode	4.25Gb/s	150m	850nm	VCSEL	54.50	44.96	40.88	38.15	
630-AFBR-57R5APZ	AFBR-57R5APZ	SFP	Fibre Channel	Multi-mode	4.25Gb/s	150m	850nm	VCSEL	54.50	44.96	40.88	38.15	
630-AFBR-57R6AEZ	AFBR-57R6AEZ	SFP	Fibre Channel	Multi-mode	4.25Gb/s	150m	850nm	VCSEL	57.00	47.03	42.75	39.90	
630-AFBR-54D7APZ	AFBR-54D7APZ	SFP	Fibre Channel	Multi-mode	8.5Gb/s	21m, 50m, 150m	860nm	VCSEL	110.00	90.76	82.50	77.00	
630-AFBR-703SNZ	AFBR-703SNZ	SFP	Ethernet	Multi-mode	10.31Gb/s	300m	860 nm	VCSEL	239.98	219.98	199.98	186.65	

