

Fiber Optic LAN Components 660nm LED For Industrial Bus Systems

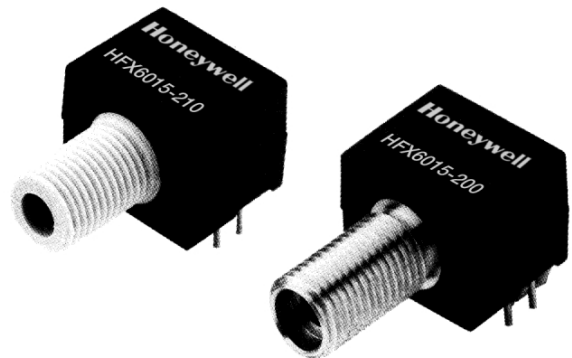
HFX6015-xxx

FEATURES

- Super bright LED for optical fiber communication
- High accuracy by use of special plastic package with centered LED chip
- High output at suitable peak wavelength (typ.) for plastic fiber
- High frequency cut-off, most suited for high speed data transmissions ($f_c = \text{typ. } 7 \text{ MHz}$)

HFX6015-200 only

- Metal barrel for high mechanical stability
- Separate grounding of barrel for optimum EMI/RFI shielding



HFX6015-210

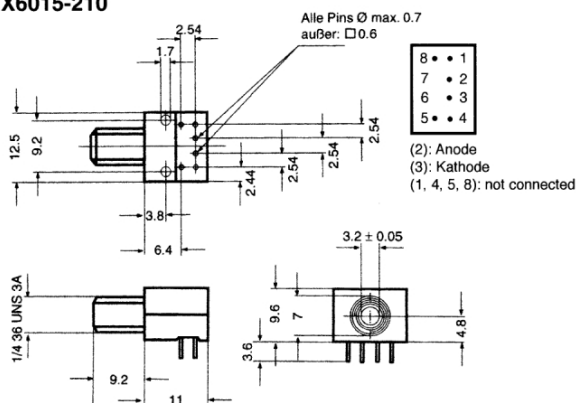


Fig. 1

HFX6015-200

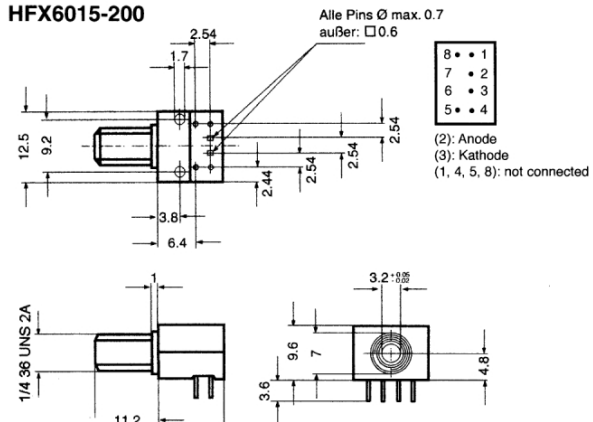


Fig. 2

SERCOS HFX6015-210 (Fig.1) and HFX6015-200 (Fig.2)

Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
Coupled Power	$I_F = 50\text{mA}^*$, 1mm fibre	P_C	700		1400	μW

Note: Available for all products with date code 03.05 or later

PROFIBUS HFX6015-4xx

Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
Coupled Power	1mm fibre	P_C	-5.5			dbm

GENERAL PURPOSE BUS APPLICATIONS

Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
Coupled Power	$I_F = 50\text{mA}^*$, 1mm fibre	P_C	300			μW

Note: * Derate Linearly from 25°C: 0.93mA/°C DC current

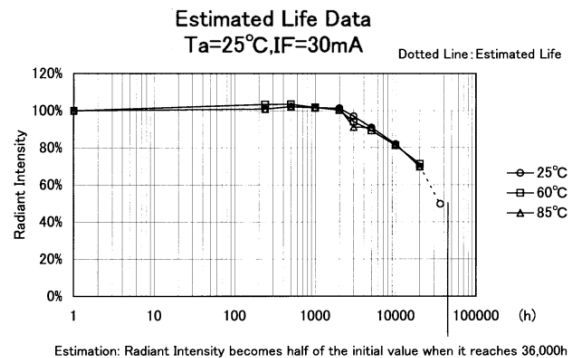
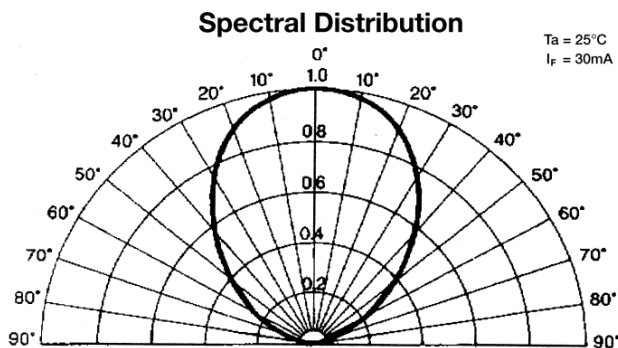
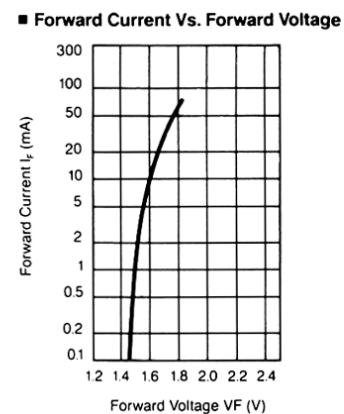
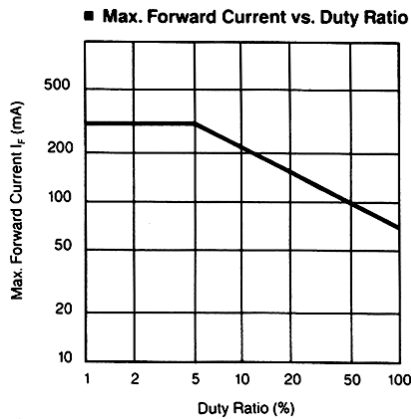
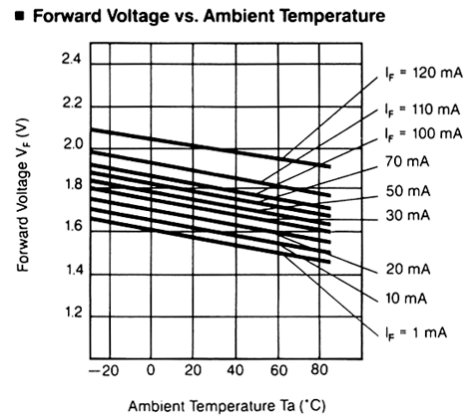
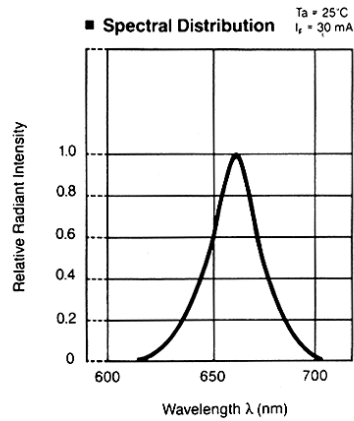
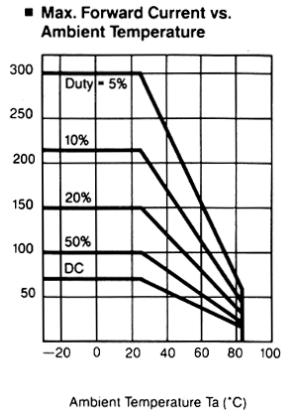
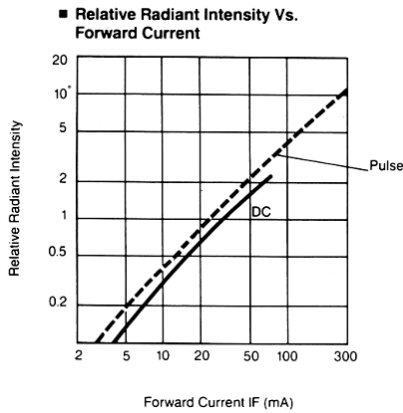
Other receptacles available. For additional information see please "Mounted LEDs/Transmitters"

Fiber Optic LAN Components

HFX6015-xxx

660nm LED

For Industrial Bus Systems



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ABSOLUTE MAXIMUM RATINGS

(25° C free air temperature unless otherwise noted)

Forward current.....70mA
Peak forward current.....(1ms pulse, 1/20 duty) 300mA
Reverse voltage.....+4V
Power dissipation.....140mW
Operating temperature.....-30°C to +85°C
Storage temperature..... -30°C to +100°C
Lead soldering time at 260°C.....5 sec (3,0mm from body)

ELECTRO OPTICAL CHARACTERISTICS

Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
Peak Wavelength	$I_F = 30\text{mA}^*$	λ_P		660		nm
Spectral Line Half Width	$I_F = 30\text{mA}^*$	$\Delta\lambda$		30		nm
Forward Voltage	$I_F = 30\text{mA}^*$	V_F		2.0	2.5	V
Reverse Current	$V_R = 4\text{V}$	I_R			100	μA
Capacitance		C_O		50		pF
Response Time	$I_F = 30\text{mA}^*$	t_r, t_f		50		ns

Note: * Derate Linearly from 25°C: 0.93mA/°C DC current

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