OPTICAL FIBER LIGHT EMITTING DIODES & PIN PHOTODIODES
with
ST CONNECTORS

(DS1612)

APPLICATIONS:
An ST terminated optical fiber light emitting diode (FO-LED), an ST terminated PIN photo-diode (FO-PIN) and an ST connectorised graded index multimode glass fiber (62.5/125) patch cord make up the basic component set for transmission of electrical signals through a glass optical medium. With just a few additional external components, a variety of analog and digital transmission circuits can be realized.

SPECIFICATIONS of ST CONNECTORISED LIGHT EMITTING DIODES

LED Wavelength in nm (nominal)	650	850
Spectral Half Width in nm (typical)	45	35
Forward Current in mA (max)	15	50
Forward Voltage in volts (typical)	2.2	1.8
Optical Power coupled into 62.5/125 fiber in dBm (typical)	-18	-14
Output Rise Time and Fall Time in ns (typical)	500	6
Leads Colour Code Anode/Cathode	Red/Black	Green/Black
Ordering Codes: Light Emitting Diode ST/650 or Light Emitting Diode ST/850		

SPECIFICATIONS of ST CONNECTORISED PIN PHOTODIODES

Photodetector Type	PIN PD/WB	PIN PD/LO
Flux Responsivity A/W	0.55	0.55
Peak Responsivity Wavelength in nm	860	860
Dark Current in nA (typical)	0.1	2.0
Rise and Fall Times in ns (typical)	1 to 2	100
Total Capacitance in pf	5	12
Field of View in degrees	80	65
Leads Colour An/Ca	Red /Green	Red/Grey
Ordering Codes: PIN Photo-Diode ST/WB or PIN Photo-Diode ST/LO		

BASIC COMPONENT SET

FO LED ST/850

+

2-MT GIMM GLASS CABLE

+

FO PIN DIODE ST/WB