BLM Laser Maket Survey

BLM Laser requirement

- Signal:1310 nm, digital ~100MHz
- Fibre length ~ 3 Km,
- Case: To be inserted in VME module,
- Environment: 10-40° C, 200 Gy hadrons - electron in 20 years,
- Failure rate: < 5 10^{-6} /h (5000 FIT).

Suppliers

Solutions

- Agilent
- Finisar=Emitec
- JDS
- Luminent
- Mitsubishi
- Infineon (Siemens)
- Itek
- OCP
- Photontec
- Stratos

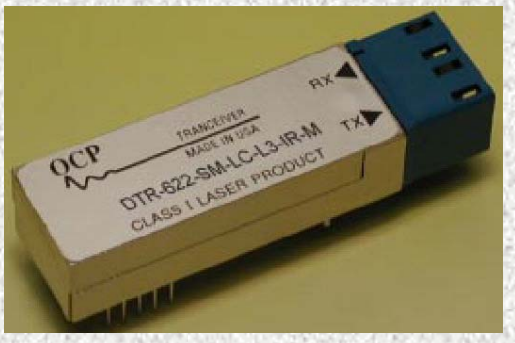
No answer

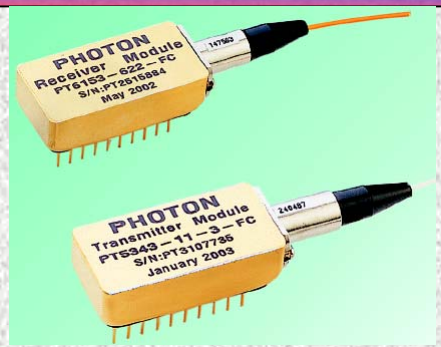
- Alcatel
- Appointech
- Archcom
- Baycom
- Coretek
- FLC
- Fujitsu
- Hitachi
- HPD
- Italtel (NEC)
- Laser Components
- Lasertron
- Lightron
- NEC
- OKI
- Photonic Product
- PD-LD
- Sumitomo
- ST
- Vtera

Decline

- APAC Opto
- Hamamatsu
- Lucent
- Newport
- Tyco

Solutions





Transceiver:
- SFF (Small Form Factor)
- SFP (Small Form Pluggable)

Discrete:
- 20 pin
- 4 pin

Solution properties

	Transceivers	Discretes
Cost (CHF)	110-200 (x2)	180 (T+R)
FIT (10^{-9}/h)	340-900	80-600
Input-Output	PECL	PECL
Feedback	Good	Poor
Interchangeability	Easy	Difficult

What do you prefer?