



JDS FITEC Inc.
570 West Hunt Club Road
Nepean, Ontario, K2G 5W8
CANADA

VCB Test Report



Customer : **ALCATEL NETWORK SYSTEMS**

Model no. : **VCB-Z004**

Serial no. : **CC000226**

<u>Parameter⁽¹⁾</u>	<u>Units</u>	<u>Measured value</u>	<u>Specification</u>
Insertion loss ⁽²⁾	dB	1.27	1.60 (max.)
Potentiometer readings			
V _{minimum}	%	5.77	--
V _{mon}	%	16.93	--
V _{maximum}	%	95.79	--
Attenuation range	dB	31.49	30 (min.)
Attenuation resolution	dB/step	0.08	0.10 (max.)
Backlash	dB	0.007	0.2 (max.)
Repeatability	dB	0.004	0.1 (max.)
Polarization Dependant Loss			
Device, min. loss to 6 dB	dB	0.05	0.10 (max.)
Device, 6 dB to 20 dB	dB	0.03	0.20 (max.)
Device, 20 dB to 30 dB	dB	0.04	0.30 (max.)
Input detector	dB	0.038	0.25 (max.)
Output detector	dB	0.049	0.20 (max.)
Return Loss			
In	dB	57	55 (min.)
Responsivity			
Input detector	mA/mW	0.037	0.03 to 0.05
Output detector	mA/mW	0.033	0.03 to 0.05
Tracking error			
Input detector	dB	0.003	0.1 (max.)
Output detector			
min. loss to 3 dB	dB	0.04	0.35 (max.)
3 dB to 20 dB	dB	0.06	0.20 (max.)
3 dB to 30 dB	dB	0.09	0.30 (max.)

- Notes : 1. Measurements taken at temperature of 23°C ± 3°C. Source wavelength : 1550 nm ± 5 nm.
2. Measured in averaged polarization state and excludes connector loss.

Operator : B. Zadozyn

Date : August 13, 1999



JDS FIBER Inc.
570 West Hunt Club Road
Nepean, Ontario, K2G 5W8
CANADA

VCB Test Report



Customer : **ALCATEL NETWORK SYSTEMS**

Model no. : **VCB-Z004**

Serial no. : **HC045101**

<u>Parameter⁽¹⁾</u>	<u>Units</u>	<u>Measured value</u>	<u>Specification</u>
Insertion loss ⁽²⁾	dB	1.30	1.60 (max.)
Potentiometer readings			
V _{minimum}	%	7.13	--
V _{mon}	%	16.45	--
V _{maximum}	%	95.00	--
Attenuation range	dB	32.25	30 (min.)
Attenuation resolution	dB/step	0.10	0.10 (max.)
Backlash	dB	0.048	0.2 (max.)
Repeatability	dB	0.037	0.1 (max.)
Polarization Dependant Loss			
Device, min. loss to 6 dB	dB	0.03	0.10 (max.)
Device, 6 dB to 20 dB	dB	0.04	0.20 (max.)
Device, 20 dB to 30 dB	dB	0.05	0.30 (max.)
Input detector	dB	0.034	0.25 (max.)
Output detector	dB	0.087	0.20 (max.)
Return Loss			
In	dB	55	55 (min.)
Responsivity			
Input detector	mA/mW	0.039	0.03 to 0.05
Output detector	mA/mW	0.046	0.03 to 0.05
Tracking error			
Input detector	dB	0.005	0.1 (max.)
Output detector			
min. loss to 3 dB	dB	0.09	0.35 (max.)
3 dB to 20 dB	dB	0.14	0.20 (max.)
3 dB to 30 dB	dB	0.15	0.30 (max.)

- Notes : 1. Measurements taken at temperature of 23°C ± 3°C. Source wavelength : 1550 nm ± 5 nm.
2. Measured in averaged polarization state and excludes connector loss.

Operator : B. Gadioguz

Date : August 9, 1999



JDS FIBER Inc.
570 West Hunt Club Road
Nepean, Ontario, K2G 5W8
CANADA

VCB Test Report



Customer : ALCATEL NETWORK SYSTEMS

Model no. : VCB-Z004

Serial no. : BC038808

<u>Parameter⁽¹⁾</u>	<u>Units</u>	<u>Measured value</u>	<u>Specification</u>
Insertion loss ⁽²⁾	dB	1.17	1.60 (max.)
Potentiometer readings			
V _{minimum}	%	3.82	--
V _{mon}	%	15.13	--
V _{maximum}	%	92.87	--
Attenuation range	dB	33.83	30 (min.)
Attenuation resolution	dB/step	0.08	0.10 (max.)
Backlash	dB	0.018	0.2 (max.)
Repeatability	dB	0.008	0.1 (max.)
Polarization Dependant Loss			
Device, min. loss to 6 dB	dB	0.06	0.10 (max.)
Device, 6 dB to 20 dB	dB	0.04	0.20 (max.)
Device, 20 dB to 30 dB	dB	0.03	0.30 (max.)
Input detector	dB	0.017	0.25 (max.)
Output detector	dB	0.035	0.20 (max.)
Return Loss			
In	dB	61	55 (min.)
Responsivity			
Input detector	mA/mW	0.038	0.03 to 0.05
Output detector	mA/mW	0.039	0.03 to 0.05
Tracking error			
Input detector	dB	0.003	0.1 (max.)
Output detector			
min. loss to 3 dB	dB	0.10	0.35 (max.)
3 dB to 20 dB	dB	0.11	0.20 (max.)
3 dB to 30 dB	dB	0.04	0.30 (max.)

- Notes : 1. Measurements taken at temperature of 23°C ± 3°C. Source wavelength : 1550 nm ± 5 nm.
2. Measured in averaged polarization state and excludes connector loss.

Operator : B. Gadiagay

Date : August 9, 1999



JDS FIBER Inc.
570 West Hunt Club Road
Nepean, Ontario, K2G 5W8
CANADA

VCB Test Report



Customer : **ALCATEL NETWORK SYSTEMS**

Model no. : **VCB-Z004**

Serial no. : **CC000341**

<u>Parameter⁽¹⁾</u>	<u>Units</u>	<u>Measured value</u>	<u>Specification</u>
Insertion loss ⁽²⁾	dB	1.37	1.60 (max.)
Potentiometer readings			
V _{minimum}	%	4.46	--
V _{mon}	%	6.15	--
V _{maximum}	%	91.26	--
Attenuation range	dB	33.92	30 (min.)
Attenuation resolution	dB/step	0.08	0.10 (max.)
Backlash	dB	0.042	0.2 (max.)
Repeatability	dB	0.039	0.1 (max.)
Polarization Dependant Loss			
Device, min. loss to 6 dB	dB	0.09	0.10 (max.)
Device, 6 dB to 20 dB	dB	0.07	0.20 (max.)
Device, 20 dB to 30 dB	dB	0.05	0.30 (max.)
Input detector	dB	0.021	0.25 (max.)
Output detector	dB	0.034	0.20 (max.)
Return Loss			
In	dB	67	55 (min.)
Responsivity			
Input detector	mA/mW	0.038	0.03 to 0.05
Output detector	mA/mW	0.038	0.03 to 0.05
Tracking error			
Input detector	dB	0.003	0.1 (max.)
Output detector			
min. loss to 3 dB	dB	0.24	0.35 (max.)
3 dB to 20 dB	dB	0.07	0.20 (max.)
3 dB to 30 dB	dB	0.13	0.30 (max.)

- Notes : 1. Measurements taken at temperature of 23°C ± 3°C. Source wavelength : 1550 nm ± 5 nm.
2. Measured in averaged polarization state and excludes connector loss

Operator : 

Date : August 13, 1999