



# NEOS TECHNOLOGIES

A Gooch & Housego Company

## DEVICE SPECIFICATIONS

### MODEL NUMBER:

# 26055-1-1.55-LTD-4FO

### DOCUMENT NUMBER: 56A05408E

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	AMTIR
Acoustic Mode	Longitudinal
Operating Wavelength	1550 nm
Window Configuration	AR Coated
Operating Frequency	55 MHz
Insertion loss* (max)	3.5 dB (AOM OFF) Port 1 to 2, 4 to 3 4 dB (AOM ON) Port 1 to 3, 2 to 4
Crosstalk (Typical)	-50 dB Port 1 to 3, 2 to 4 -50 dB Port 1 to 4, 2 to 3 -16 dB Port 1 to 2, 3 to 4
Light Polarization	Random
Polarization Dependent Loss	<0.15 dB
Rise Time	100 ns Maximum
RF Power Level	< 0.5 Watt
Impedance	50 Ohms
VSWR	<1.2:1 @ 55 MHz
Package:	53D3700
Connector Type:	FC/PC Standard, FC/APC or others optional
Fiber Type:	Single Mode Fibers, 9/125
Operating Manual:	51A10890
Acceptance Test Procedure:	42A15064
Acceptance Test Results form:	52A14092
Recommended Drivers:	
Analog System Driver: 21055-0.4AS	Digital System Driver: 21055-0.4DS
Analog Module Driver: 21055-0.4AM	Digital Module Driver: 21055-0.4DM

\* Not including loss at FC/PC connector interfaces

**For More Information, Contact:**      [neos@neostech.com](mailto:neos@neostech.com)      **Ph. (321) 242-7818**      **Fax (321) 242-1019**

**CONTROLS AND CONNECTIONS**

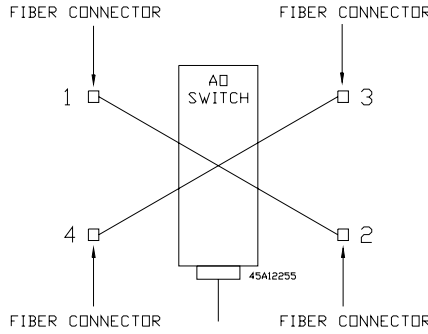
BNC Connector:

Input 55 MHz @ < 0.5 Watt

FC/PC Connectors

X 4 port 1, 2, 3, 4

**SCHEMATIC:**



45A12255

**LOGIC:**

RF ON: low loss path:

port 1 to port 3  
port 2 to port 4  
port 3 to port 1  
port 4 to port 2

Light Frequency Shifted:

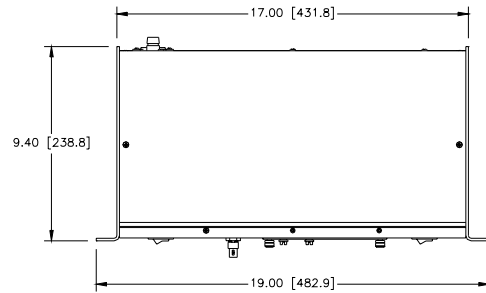
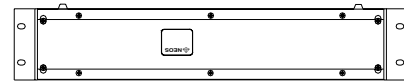
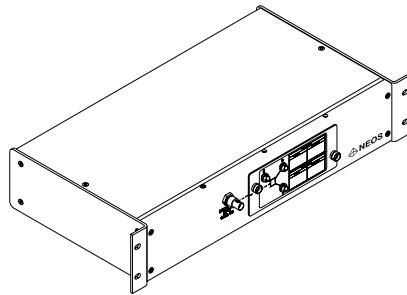
up shifted by 55 MHz  
down shifted by 55 MHz  
up shifted by 55 MHz  
down shifted by 55MHz

RF OFF low loss path:

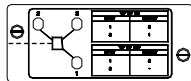
port 1 to port 2  
port 3 to port 4  
port 2 to port 1  
port 4 to port 3

no shift  
no shift  
no shift  
no shift

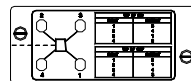
**OUTLINE DRAWING:**



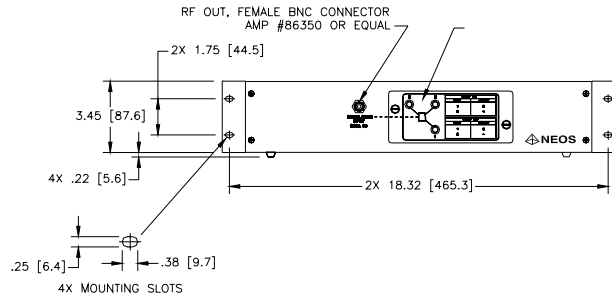
CONNECTOR PLATE OPTIONS



26055-1-1.55-LTD-3FO WITH FC CONNECTORS AND 14B3477 CONNECTOR PLATE



26055-1-1.55-LTD-4FO WITH FC CONNECTORS AND 14B2730 CONNECTOR PLATE



Dimensions are in inches  
Dimensions in [ ] are in mm.

Tolerances:

Decimal: .xx = .01 .xxx = .005  
Millimeter: .xx = .25mm .xxx = .127mm  
Angle: = ± 30'

53D3700

56A05408E.doc  
Approved 109/07/05 W SEALE