

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**81663A-01**

# S E R V I C E N O T E

Supersedes:  
none

81663A

Serial Numbers: all

**Software update due to specification change**

**To Be Performed By: Agilent-Qualified Personnel or Customer**

**Parts Required:**

P/N	Description	Qty.
none		

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
<b>MODIFICATION RECOMMENDED</b>		
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR: 0.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AGILENT RESPONSIBLE UNTIL: March 2005		
AUTHOR: Ulrich Stempfle      PRODUCT LINE: 3E		
ADDITIONAL INFORMATION:		

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February 26, 2002

**Situation:**

The specification of the 81662A and 81663A were enhanced February 2002. All modules , new or repaired, are shipped with the new specifications from OCMD from 1<sup>st</sup> of February. All 81662A and 81663A DFB lasers (old and new) keep the new specifications if firmware revision > 3.0 is installed on the DFB modules.

New specifications:

	<b>Agilent 81662A</b> <b>For peak wavelengths see options</b>	<b>Agilent 81663A</b> <b>For peak wavelengths see options</b>
Type	CW DFB Laser with built-in isolator	CW DFB Laser with built-in isolator
Wavelength	ITU Grid (100 GHz) typ. > ±500 pm 10 pm	ITU Grid (100 GHz) typ. > ±850 pm 10 pm
<ul style="list-style-type: none"> <li>• Tuning Range</li> <li>• Display Resolution</li> <li>• Repeatability</li> <li>• Stability (15min.)</li> <li>• Stability (24h)</li> </ul>	<ul style="list-style-type: none"> <li>± 3 pm (typ. ± 1 pm) (new)</li> <li>± 3 pm (typ ± 1 pm) (new)</li> <li>typ. ± 5 pm (new)</li> </ul>	<ul style="list-style-type: none"> <li>± 5 pm (typ. ± 2 pm)</li> <li>± 5 pm (typ ± 2 pm)</li> <li>typ. ± 5 pm (new)</li> </ul>
Fiber type	Panda PMF 9 / 125 μm	Panda PMF 9 / 125 μm
Output Connector	Compatible to angled contact APC, ASC, DIN47256/4108	Compatible to angled contact APC, ASC, DIN47256/4108
Power	typ. > +10 dBm (10 mW) typ. ±0.005 dB typ. ±0.03 dB	typ. > +13 dBm (20 mW) typ. ±0.003 dB typ. ±0.01 dB
Side Mode Suppression Ratio (SMSR)	typ. 45 dB (new)	typ. 50 dB (new)
Polarization Extinction Ration (PER)	typ. > 20 dB (new)	typ. > 20 dB (new)
Dimensions (H x W x D)	75 mm H x 32 mm W x 335 mm D (2.8" x 1.3" x 13.2")	75 mm H x 32 mm W x 335 mm D (2.8" x 1.3" x 13.2")
Weight	0.5kg	0.5kg
Recalibration Period	1 year	1 year
Operating Temperature	15°C to 35 °C	15°C to 35 °C
Warm-up time	60 min	60 min
Reference price	5000 USS	7000 USS

**Solution/Action:**

If DFB lasers are sent to the service center for calibration or repair update to firmware revision > 3.0. All DFB lasers keep new specification if firmware revision > 3.0 is installed. Test all DFB lasers against new specifications valid since 1<sup>st</sup> of February 2002. Testlimits in the automatic testsoftware WFM 2000 will be updated March 2002.