

TÜVImmissionsschutzundEnergiesystemeGmbH •D-51101Köln  
TÜVRheinlandGroup

AkkreditierungderZentralstelle  
derLänderfürSicherheitstechnik

ZLS

DAR-Reg-Nr.:ZLS-P-432/03

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Cologne, 09/December/2004

PO#9046035582

**Amendment to the Certificate on Classification of the Laser Product  
FamilyHFCT-53\*5\*\* (Certificate933/21201880/0413/ 02/2004)**

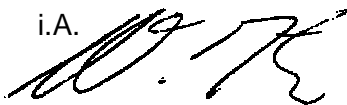
DearMr.Tie,

attachedyouget3copiesofouramendmentmentionedabove.  
Please refer to the previous amendment 933/510310/01 from 10/04/2003  
and the upgraded certificate 933/21201880/04 from 13/02/2004. We used  
thelatterasthebasiccertificateinthetitlebecauseitisthenewerone.

Bestregards

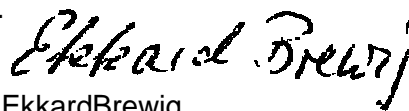
Immissionsschutz/Lärmschutz

i.A.



Dipl.-Ing.WilhelmKurtz

i.A.



Dr.EkkardBrewig

**Attachment**

3copiesofamendment

**Amendment to the Certificate on Classification of the Laser Product Family  
HFCT-53\*5\*\* (Certificate 933/21201880/0413/02/2004 )**

according to IEC 60825-1:2001 and IEC 60825-2:2000

(The European Standards and their derivatives EN 60825-1:2003 and EN 60825-2:2000 are equivalent to the IEC 60825-1 and IEC 60825-2 mentioned. Therefore the certification is valid also in the sense of the corresponding EN standards.)

The laser product family **HFCT-53\*5\*\*** now includes:

Base parts:

HFCT-5305D	-	QFCT-53***[5]
HFCT-5611*	30-0703-01	QFCT-55***[5]
HFCT-5612*	SFCT-569XXXX	AFCT-561XXX

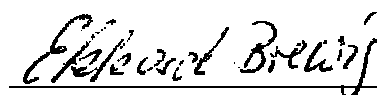
Added generic parts: SFCT-569XXXX, AFCT-561XXX[4].

X could be any alphanumeric characters or blank.

The laser product family remains laser CLASS 1 according to IEC 60825-1:2001 [1] can be used under laser hazard level 1 conditions according to IEC 60825-2:2000 [2].

Abteilung Immissionsschutz/Lärmschutz

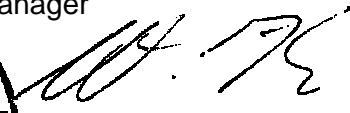
Author:



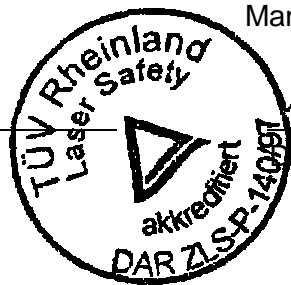
Dr. Ekkard Brewig

Köln, 09/December/2004  
933/21203417/01

Manager



ipl.-Ing. Wilhelm Kurtz



## Annex 1: Basics

- [1] **IEC60825-1 Ed.1.2:2001-08** „Safety of laser products-part 1: Equipment classification, requirements and user's guide”(DIN EN 60825-1:2001-11 is the German translation of this international standard, Reference IEC 60825-1:1993+A1:1997+A2:2001)
- [2] **IEC60825-2:2000-05** „Safety of laser products-part 2: Safety of optical fibre communication systems.(DIN EN 60825-2:2000 is the German translation of the IEC 60825-2:2000)
- [3] Data Sheet: Agilent **HFBR-5601/HFCT-5611**, Gigabit Interface Converters (GBIC) for Gigabit Ethernet
- [4] Information about the generic parts, given by email 17/11/2004: Agilent adds the new part numbers listed below to the Amendment 933/5103 10/01 (for HFCT-53\*5\*\*)[6]. These parts are exactly the same as old HFCT part numbers ( cf. data sheet for HFCT-5611[3]). Other than the part number change, every thing else is the same. AFCT-5612 is same as HFCT-5612\*. Note that SFCT parts are basically the customer special of AFCT-5611.

### LXGBIC

Part numbers	Description
AFCT-5612C	SMFCGBIC
AFCT-5611	GbELWLGBICTxvcr
AFCT-5611-001	GbELWLGBICTxvcr(single pack)
AFCT-5612	Fibre Channel LWLGBIC
AFCT-5613	GbELWLGBICTxvcr
SFCT-5696	GbELWLGBICTxvcr
SFCT-5694	GbELWLGBICTxvcr
SFCT-5697	GbELWLGBICTxvcr
SFCT-5698	GbELWLGBICTxvcr
SFCT-5693	GbELWLGBICTxvcr
SFCT-5650	GbELWLGBICTxvcr, Extreme
SFCT-5699	GbELWLGBICTxvcr for CISCO
SFCT-5686	GbELWLGBICTxvcr for CISCO

- [5] In any case the QFCT (customer) parts have a form, which describes the reference to the Agilent base parts referred to as "reference" here.
- [6] Amendment 933/510310/01 from 14/04/2003 is part of the upgraded certificate 933/21201880/04 from 13/02/2004