

Förderverein für Elektrotechnische Normung (FEN) e. V.
Cenelec Electronic Components Committee

CECC

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION PARTICULIERE:

COUPLEURS A FIBRES OPTIQUES

Type: Non selectif en longueur d'onde
Transmission Etoile

1 x 4 portes bidirectionnel

Style: Configuration A, Type de fibre B1.2

Harmonized System of Quality Assessment for
Electronic Components

DETAIL SPECIFICATION:

FIBRE OPTIC BRANCHING DEVICES

Type: Non Wavelength Selective
Transmissive Star

1 x 4 Ports Bidirectional

Style: Configuration A, Fibre Type B1.2

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:

FASEROPTISCHE VERZWEIGER

Bauart: Nichtwellenlängenselektiver
Übertragungsstern

1 x 4 Tore zweiseitig gerichtet

Bauform: Aufbau A, Fasertyp B1.2



1

Edition
Issue
Ausgabe

CECC 81 101-803

1994

Information about the System may be obtained from:



FEN e.V. Secretariat
and
CECC General Secretariat
Gartenstraße 179
D - 60596 Frankfurt
Telephone: Int. + 49 69 639171
Telefax: Int. + 49 69 639427

or from the National Authorized Institutions
of the participating countries listed
who can supply copies of:

- 1 The Internal Regulations of the FEN e.V.
- 2 The Rules of Procedure of the System
- 3 CECC Specifications of the FEN and National Specifications for the System
- 4 CECC 00 200: Register of Firms, Products, and Services Approved under the CECC System
- 5 CECC 00 300: Register of National Documents Implementing CECC Publications and CECC European Standards
- 6 CECC 00 301: Register of CECC Specifications and Related Detail Specifications
- 7 Other CECC Publications and publicity documents

AUSTRIA
Österreichischer Verband für Elektrotechnik (ÖVE)
Eschenbachgasse 9
A-1010 VIENNA

BELGIUM
Comité Electrotechnique Belge
Avenue F. Van Kalken, 9
B-1070 BRUSSELS

DENMARK
Dansk Elektroteknisk Komite
Dansk Standard
Electrotechnical Sector
Baunegårdsvej 73
DK-2900 HELLERUP

FINLAND
Finnish Electrotechnical Standards Association (SESKO)
P.O. Box 134
SF-00211 HELSINKI 21

FRANCE
Union technique de l'Electricité
Participation française au CECC
F-92052 PARIS La Défense Cedex 64

GERMANY
Deutsche Elektrotechnische Kommission im DIN und VDE (DKE)
Stresemannallee 15
D-60596 FRANKFURT

IRELAND
EOLAS - The Irish Science and Technology Agency
Glasnevin
IRL-DUBLIN 9

ITALY
Comitato Elettrotecnico Italiano (CEI)
Viale Monza, 259
I-20126 MILAN

NETHERLANDS
Nederlands Elektrotechnisch Comité (NEC)
Kalfjeslaan 2
P.O. Box 5059
NL-2600 GB DELFT

NORWAY
Norsk Elektroteknisk Komite (NEK)
P.O. Box 280
Skøyen
N-0212 OSLO 2

PORTUGAL
Instituto Português da Qualidade
Rua José Estevão, 83A
P-1199 LISBOA CODEX

SPAIN
New Spanish Member
to be determined.

SWEDEN
Svenska Elektriska Kommissionen (SEK)
Box 1284
S-16428 KISTA-STOCKHOLM

SWITZERLAND
Schweizerischer Elektrotechnischer Verein (SEV)
Luppenstr. 1
CH-8320 FEHRLTORF

UNITED KINGDOM
UK Electronic Components Policy Council
Electrical Department
British Standards Institution
2, Park Street
GB-LONDON W1A 2BS

[1] Specification available from: CECC GENERAL SECRETARIAT	[2] CECC 81 101-803 Page 1 of 17
[3] ELECTRONIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH GENERIC SPECIFICATION EN 181 000 : 1994 BLANK DETAIL SPECIFICATION EN 181 101 : 1994	[4] Issue 1

[5] DETAIL SPECIFICATION for

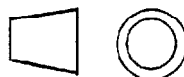
FIBRE OPTIC BRANCHING DEVICE OF ASSESSED QUALITY

Style: - Configuration: A
 - Fibre Type: B1.2
 - Connector Set: Not applicable

Type: Splitter/Combiner
(transfer matrix - Non wavelength selective
and numbering of - Bidirectional
ports see page 2) - Transmissive star 1 x 4

[6] Assessment Level: B	Qualification Approval Procedure: Fixed sample	Climatic category: 40/085/21
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[7] Outline dimensions
and mass



Panel piercing and
mounting details:
Not applicable.

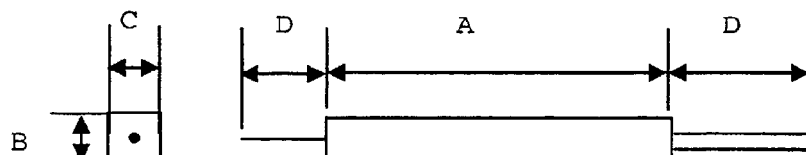


Figure 1 (Not to scale)

Dimensions (mm)			
Ref.	Min.	Max.	Notes
A	50	51	
B	4,5	4,7	
C	3,5	3,7	
D	1000	3000	Pigtail

Mass (g): > 5.

Information about manufacturers who have components qualified to this Detail Specification is available in the current CECC 00 200, Register of Approvals.

[8] Variants:

Variant No.	Operating wavelength (µm)	Pigtail type
A01	1,31 ± 0,05	primary coating
	1,55 ± 0,05	

Transfer matrix and numbering of ports:



Launch Port	Receive Ports				
	1	2	3	4	5
1	a ₁₁ > 50	a ₁₂ < 7,5	a ₁₃ < 7,8	a ₁₄ < 7,5	a ₁₅ < 7,5
2	a ₂₁ < 7,5	a ₂₂ > 50	a ₂₃ > 50	a ₂₄ > 55	a ₂₅ > 55
3	a ₃₁ < 7,5	a ₃₂ > 55	a ₃₃ > 50	a ₃₄ > 55	a ₃₅ > 55
4	a ₄₁ < 7,5	a ₄₂ > 55	a ₄₃ > 55	a ₄₄ > 50	a ₄₅ > 55
5	a ₅₁ < 7,5	a ₅₂ > 55	a ₅₃ > 55	a ₅₄ > 55	a ₅₅ > 50

Note: Values in dB.

[9] SUPPLEMENTARY INFORMATION

Marking of the component (see 2.7.2 of EN 181 000):

1. Manufacturer's identification mark
2. Manufacturer's date code
3. Manufacturer's part number
4. Variant identification number

Marking and contents of package (see 2.7.3 of EN 181 000):

1. Manufacturer's identification mark
2. Manufacturer's part number
3. Manufacturer's date code
4. Variant identification number
5. Nominal attenuation values

Ordering information (see 2.9 of EN 181 000):

CECC 81 101-802-(Variant number)

Related documents:

Not applicable.

Certified records of released lots:

Certificate is required (see 3.5 of EN 181 000).

Structural similarity:

See 3.2 of EN 181 000.

[10] TABLE 1: FIXED SAMPLE INSPECTION TEST SCHEDULE			
	Test Sequence (Note)	EN 181 000 Clause	Sample Size
GROUP 0	Visual inspection Dimensions	4.5.1 4.5.2	20
GROUP 1	Insertion loss between conducting ports at 1310 nm, 1550 nm Insertion loss between isolated ports at 1310 nm, 1550 nm	4.5.5 4.5.6	5
GROUP 2	Cold Dry heat Damp heat	4.6.17 4.6.18 4.6.19	5
GROUP 3	Change of temperature Climatic sequence	4.6.22 4.6.20	5
GROUP 4	Vibration Pulling Drop test	4.6.1 4.6.4 4.6.15	5

Note: For details, measurements and performance requirements see table 4.