

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: Selectif en longueur d'onde

Multiplexeur/Démultiplexeur

1 x 2 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: Wavelength Selective

Multiplexer/Demultiplexer

1 x 2 Ports Bidirectional

Style: Configuration A, Fibre Type B1.2

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:

FASEROPTISCHE VERZWEIGER

Bauart: Wellenlängenselektiver

Multiplexer/Demultiplexer

1 x 2 Tore zweiseitig gerichtet

Bauform: Aufbau A, Faserart B1.2



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Edition
Issue
Ausgabe

CECC 81 102-801

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 Österreichischer Verband für Elektrotechnik (ÖVE)
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DENMARK
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Information about the System may be obtained from:



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*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

[8] Variants:

Variant No.	Operating wavelength range (μm)	Pigtail type
- A01	1,30 ... 1,32	prim. coating
	1,54 ... 1,56	prim. coating

Transfer matrix and numbering of ports:



Operating wavelength range (μm) 1,30 ... 1,32
 $1,30 \leq \lambda \leq 1,32$

Launch Port	Receive Port		
	1	2	3
1	$a_{11}(\lambda) > 50$	$a_{12}(\lambda) \leq 0,3$	$a_{13}(\lambda) \geq 20$
2	$a_{21}(\lambda) \leq 0,3$	$a_{22}(\lambda) > 50$	$a_{23}(\lambda) = x$
3	$a_{31}(\lambda) \geq 20$	$a_{32}(\lambda) = x$	$a_{33}(\lambda) > 50$

Operating wavelength range (μm) 1,54 ... 1,56
 $1,54 \leq \lambda \leq 1,56$

Launch Port	Receive Port		
	1	2	3
1	$a_{11}(\lambda) > 50$	$a_{12}(\lambda) \geq 20$	$a_{13}(\lambda) \leq 0,3$
2	$a_{21}(\lambda) \geq 20$	$a_{22}(\lambda) > 50$	$a_{23}(\lambda) = x$
3	$a_{31}(\lambda) \leq 0,3$	$a_{32}(\lambda) = x$	$a_{33}(\lambda) > 50$

Note 1: Values in dB.

Note 2: X = Values not specified.

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[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 letter number
5. Identification of the ports

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. Type designation
6. Assessment level

Ordering information:

CECC 81 102-801-A-01

Related documents:

Not applicable.

Certified records of released lots:

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

Structural similarity:

See clause 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 and mass	4.5.1 4.5.2	10
GROUP 1	Return loss Insertion loss between conducting ports	4.5.6 4.5.5	3
GROUP 2	Cold Dry heat Damp heat Change of temperature	4.6.17 4.6.18 4.6.19 4.6.22	4
GROUP 3	Vibration Pulling Crush resistance	4.6.1 4.6.4 4.6.10	3

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