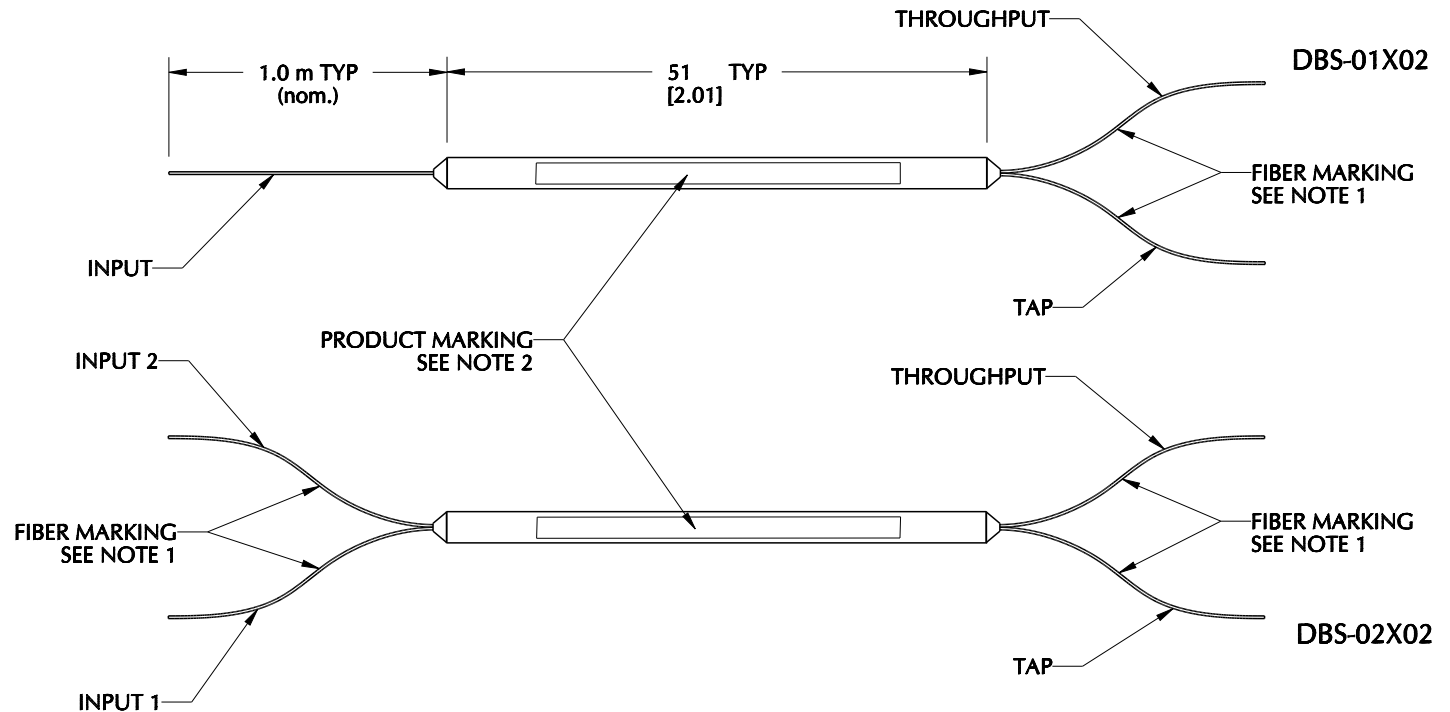


Ø 2,95 TYP
[0.12]



NOTES:

1. 'TAP' & 'INPUT 2' FIBERS WILL BE MARKED IN BLACK IMMEDIATELY AFTER THE EXIT OF THE FIBER FROM THE HOUSING TUBE END FOR APPROXIMATELY 6 INCHES LONG. THERE IS NO MARKING ON 'THROUGHPUT' & 'INPUT 1' FIBERS.
2. UNLESS OTHERWISE SPECIFIED, COUPLER MARKING TO BE LASER-MARKED WITH 'CANSTAR', CANSTAR PART DESCRIPTOR, AND SERIAL NUMBER.
3. SEE SHEET 2 FOR PART NUMBER ORDERING INFORMATION.
4. SEE SHEET 3 FOR CANSTAR PART DESCRIPTORS.
5. SEE SHEET 4 & 5, TABLE A-1 & A-2, FOR OPTICAL PERFORMANCE SPECIFICATIONS.
6. SEE SHEET 5, TABLE B, FOR CONNECTORIZED COUPLER SPECIFICATIONS.
7. CONTACT US FOR COUPLERS WITH CUSTOMER SPECIALTY FIBERS, OR WITH CUSTOM SPECS.

STANDARD SPECIFICATION	
DIRECTIVITY	> = 50dB @ nom. λ (APPLICABLE 1X2 ONLY)
THERMAL STABILITY	< = 0.002dB/1° C OVER -40° C TO +85° C (NON-CONNECTORIZED)
PDIL	< = 0.2 dB pp @ nom. λ
OPTICAL FIBER	SMF-28 TM
LEAD TYPE	BARE, ACRYLATE
PACKAGING STYLE	T304 STAINLESS STEEL TUBE

spec ref	dr asir 2012/05/10			projection 	MM [INCH]	size	A4	scale	1.400	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no	ELX-S-012105-1			
						rel level	Released			
surface	linear	0.X	±0.3		title COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE	dwg no DBS-MXN01	rev B	Product - Customer Drw		
		0.XX	±0.05					www.fci.com	cat. no.	sheet 1 of 6
		0.XXX	±							
	angular	0°	±2°							

PART NUMBER ORDERING INFORMATION

← INPUT → ← OUTPUT → (SEE NOTE 1)

of Inputs
One - '1'
Two - '2'

D B S **0 0** **0 0**

of Outputs
Two - '2'

Fiber Type
SMF-28 TM - 'A'
Customer Supplied - '#'
Custom - 'Y'

Wavelengths
1300/1550 nm - 'J'
1310/1550 nm - 'K'
Not Specified - 'X'

Operating Bandwidth
± 20 nm - '4'
Custom - 'Z'

Coupling Ratio
99:01 - '01'
98:02 - '02'
90:10 - '10'
80:20 - '20'
70:30 - '30'
60:40 - '40'
50:50 - '50'
Custom - 'ZZ'

Polish Type
'A' - Flat
'B' - PC
'X' - No Specification
'Z' - Custom

Connector Type
'A' - SMA 905
'B' - SMA 906
'C' - ST
'D' - SC
'E' - FC
'K' - LC
'#' - Customer Supplied
'X' - No Connector
'Z' - Custom

Lead Length
'0' - NA
'1' - .25 m
'2' - .50 m
'3' - .75 m
'4' - 1.00 m
'5' - 1.25 m
'6' - 1.50 m
'7' - 1.75 m
'8' - 2.00 m
'9' - 2.25 m
'A' - 2.50 m
'B' - 2.75 m
'C' - 3.00 m
'D' - 3.25 m
'E' - 3.50 m
'F' - 3.75 m
'G' - 4.00 m
'H' - 4.25 m
'I' - 4.50 m
'J' - 4.75 m
'K' - 5.00 m
'L' - 5.25 m
'M' - 5.50 m
'N' - 5.75 m
'P' - 6.00 m
'Q' - 6.25 m
'R' - 6.50 m
'S' - 6.75 m
'T' - 7.00 m
'U' - 7.25 m
'V' - 7.50 m
'W' - 7.75 m
'X' - 8.00 m
'Y' - 8.25 m
'Z' - 8.50 m
'#' - Special

NOTES:

- ORDERING OPTIONS FOR OUTPUTS ARE IDENTICAL TO INPUTS.
- NOMINAL LEAD LENGTH: 1.0 m
- SEE SHEET 5, TABLE B, FOR CONNECTOR SPECIFICATIONS.



spec ref	dr asir 2012/05/10			projection	MM [INCH]	size A4	scale N/A
tolerance std	eng asir 2012/07/04					ecn no ELX-S-012105-1	rel level Released
	chr -						
TOLERANCES UNLESS OTHERWISE SPECIFIED			appr John Wang 2012/07/04	product family		rev B	
surface <input checked="" type="checkbox"/>	linear	0.X	±0.3		title COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE	dwg no DBS-MXN01	rev B
		0.XX	±0.05				
		0.XXX	±				
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw	sheet 2 of 6

CANSTAR PART DESCRIPTOR

DBS - X - / 155 -

of Inputs
One - '01'
Two - '02'

of Outputs
Two - '02'

Primary Wavelength (nm)
1300 - '130'
1310 - '131'

Tap Ratio
1% - '01'
2% - '02'
10% - '10'
20% - '20'
30% - '30'
40% - '40'
50% - '50'



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spec ref		dr asir 2012/05/10		projection 	MM [INCH]	size A4	scale N/A				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012105-1					
						rel level Released					
surface <input checked="" type="checkbox"/>	linear	0.X	±0.3	title COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE		dwg no DBS-MXN01					
		0.XX	±0.05					www.fci.com	cat. no.	Product - Customer Drw	sheet 3 of 6
		0.XXX	±								
	angular	0°	±2°								

ProjE File - REV C - 2009-06-09

TABLE A-1					
PART DESCRIPTOR	WAVELENGTH (nm)	COUPLING RATIO (%)	MAXIMUM EXCESS LOSS (dB)	THROUGHPORT INSERTION LOSS (dB)	TAP-PORT INSERTION LOSS (dB)
DBS-01X02-130/155-50	1300/1550 ± 20	50 ± 5	0.5	3.8	3.8
DBS-01X02-130/155-40	1300/1550 ± 20	40 ± 4	0.3	2.5	4.5
DBS-01X02-130/155-30	1300/1550 ± 20	30 ± 3	0.2	2.0	6.0
DBS-01X02-130/155-20	1300/1550 ± 20	20 ± 2	0.2	1.2	7.4
DBS-01X02-130/155-10	1300/1550 ± 20	10 ± 2	0.2	0.7	11.3
DBS-01X02-131/155-50	1310/1550 ± 20	50 ± 5	0.5	3.8	3.8
DBS-01X02-131/155-40	1310/1550 ± 20	40 ± 4	0.3	2.5	4.5
DBS-01X02-131/155-30	1310/1550 ± 20	30 ± 3	0.2	2.0	6.0
DBS-01X02-131/155-20	1310/1550 ± 20	20 ± 2	0.2	1.2	7.4
DBS-01X02-131/155-10	1310/1550 ± 20	10 ± 2	0.2	0.7	11.3
DBS-01X02-131/155-02	1310/1550 ± 20	2 ± 0.5	0.2	0.3	19.0
DBS-01X02-131/155-01	1310/1550 ± 20	1 ± 0.2	0.2	0.3	22.0

spec ref		dr	asir	2012/05/10	projection 	MM [INCH]	size	A4	scale	N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	asir	2012/07/04			ecn no	ELX-S-012105-1		
		chr	-	-				rel level	Released	
surface		linear	0.X	±0.3	FCj	title	COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE		dwg no	DBS-MXN01
		0.XX	±0.05	www.fci.com				cat. no.		
	angular	0°	±2°							



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TABLE A-2					
PART DESCRIPTOR	WAVELENGTH (nm)	COUPLING RATIO (%)	MAXIMUM EXCESS LOSS (dB)	THROUGHPORT INSERTION LOSS (dB)	TAP-PORT INSERTION LOSS (dB)
DBS-02X02-130/155-50	1300/1550 ± 20	50 ± 5	0.5	3.8	3.8
DBS-02X02-130/155-40	1300/1550 ± 20	40 ± 4	0.3	2.5	4.5
DBS-02X02-130/155-30	1300/1550 ± 20	30 ± 3	0.2	2.0	6.0
DBS-02X02-130/155-20	1300/1550 ± 20	20 ± 2	0.2	1.2	7.4
DBS-02X02-130/155-10	1300/1550 ± 20	10 ± 2	0.2	0.7	11.3
DBS-02X02-131/155-50	1310/1550 ± 20	50 ± 5	0.5	3.8	3.8
DBS-02X02-131/155-40	1310/1550 ± 20	40 ± 4	0.3	2.5	4.5
DBS-02X02-131/155-30	1310/1550 ± 20	30 ± 3	0.2	2.0	6.0
DBS-02X02-131/155-20	1310/1550 ± 20	20 ± 2	0.2	1.2	7.4
DBS-02X02-131/155-10	1310/1550 ± 20	10 ± 2	0.2	0.7	11.3
DBS-02X02-131/155-02	1310/1550 ± 20	2 ± 0.5	0.2	0.3	19.0
DBS-02X02-131/155-01	1310/1550 ± 20	1 ± 0.2	0.2	0.3	22.0



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spec ref		dr asir 2012/05/10		projection 	MM [INCH]	size A4	scale N/A	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012105-1		
						rel level Released		
surface ✓	linear	0.X ±0.3	FCI	title COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE		dwg no DBS-MXN01	rev B	
		0.XX ±0.05						
		0.XXX ±						
angular	0° ±2°	www.fci.com	cat. no.	Product - Customer Drw		sheet 5 of 6		



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TABLE B			
CONNECTOR TYPE	POLISH TYPE	INSERTION LOSS / CONNECTOR (dB)	BACK REFLECTION (dB)
ST	PC	<= 0.35	> 40
	SPC	<= 0.35	> 45
	UPC	<= 0.35	> 50
	APC	Not Specified	Not Specified
FC	PC	<= 0.35	> 40
	SPC	<= 0.35	> 45
	UPC	<= 0.35	> 50
	APC	<= 0.5	> 60
SC	PC	<= 0.35	> 40
	SPC	<= 0.35	> 45
	UPC	<= 0.35	> 50
	APC	<= 0.5	> 60
LC	PC	<= 0.35	> 40
	SPC	<= 0.35	> 45
	UPC	<= 0.35	> 50
	APC	Not Specified	Not Specified

NOTES:

- PLEASE REFER TO COUPLER SPECIFICATION FOR INSERTION LOSS VALUES, AND ADD CONNECTOR INSERTION LOSS FROM TABLE.
- LEAD LENGTH TOLERANCE: +10cm / -0cm OF NOMINAL LENGTH.
- TEMPERATURE RANGE: -20° C TO +70° C

spec ref		dr asir 2012/05/10		projection 	MM [INCH]	size A4	scale N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012105-1	
						rel level Released	
surface <input checked="" type="checkbox"/>		appr John Wang 2012/07/04		product family		rev B	
linear	0.X	±0.3		FCI	title COUPLER, MXN, SINGLEMODE DUAL WINDOW, 'BS' PACKAGE	dwg no DBS-MXN01	www.fci.com
	0.XX	±0.05					
	0.XXX	±					
angular	0°	±2°		cat. no.	Product - Customer Drw	sheet 6 of 6	