

Splitter Unit
4x 1:4 / 4x 1:2

SPECIFICATIONS

Specification Splitter Unit 4x 1:4 / 4x1:2

Frequency range:	500MHz - 6000MHz
Impedance:	50Ω
Insertion loss (Splitter 1:2):	6,0dB max.
VSWR IN/OUT (Splitter 1:2):	2,0 : 1 max.
Isolation (Splitter 1:2):	17dB min.
Insertion loss (Splitter 1:4):	10,0dB max.
VSWR IN/OUT (Splitter 1:4):	2,0 : 1 max.
Isolation (Splitter 1:4):	18dB min.
Input power:	30 watts max.
RF-connectors:	N-female

Mechanical data

Deviations:	19" desktop enclosure, 6HU-84TE-310mm (dimensions without handles and connections)
Front side:	colorless anodized
Rear side:	colorless anodized
Weight:	11 kg

Test certificate



device-no.: 53.90.1650	project: Splitter Unit 0,5-6,0GHz	
serial-no.: 260062-002-0010	product: LT 4x 1:4 / 4x 1:2	state:

Measurement of the VSWR and measurement of the insertion loss

For all measurement under Chapter 1 use a calibrated network analyzer.

The level of the input signals must be set to -10dBm. The not used connector according to the measured combiner has to be terminated with 50Ω.

Signal path 500MHz-6000MHz	Insertion loss max. [dB]	Insertion loss measured [dB]	VSWR IN max. 2,0:1	VSWR OUT max. 2,0:1
AΣ / A1	10,0	9,7	1,9:1	1,6:1
AΣ / A2	10,0	9,6	1,9:1	1,6:1
AΣ / A3	10,0	9,5	1,9:1	1,5:1
AΣ / A4	10,0	9,4	1,9:1	1,5:1
BΣ / B1	10,0	9,4	1,8:1	1,6:1
BΣ / B2	10,0	8,9	1,8:1	1,5:1
BΣ / B3	10,0	9,0	1,8:1	1,5:1
BΣ / B4	10,0	9,1	1,8:1	1,6:1
CΣ / C1	10,0	9,6	1,6:1	1,5:1
CΣ / C2	10,0	9,3	1,6:1	1,5:1
CΣ / C3	10,0	9,4	1,6:1	1,5:1
CΣ / C4	10,0	9,6	1,6:1	1,5:1
DΣ / D1	10,0	8,9	1,7:1	1,4:1
DΣ / D2	10,0	9,1	1,7:1	1,7:1
DΣ / D3	10,0	8,8	1,7:1	1,4:1
DΣ / D4	10,0	9,2	1,7:1	1,6:1
EΣ / E1	6,0	5,5	1,7:1	1,5:1
EΣ / E2	6,0	5,3	1,7:1	1,5:1
FΣ / F1	6,0	5,4	1,8:1	1,7:1
FΣ / F2	6,0	5,3	1,8:1	1,6:1
GΣ / G1	6,0	5,5	1,9:1	1,6:1
GΣ / G2	6,0	5,5	1,9:1	1,7:1
HΣ / H1	6,0	5,3	1,9:1	1,7:1
HΣ / H2	6,0	5,2	1,9:1	1,6:1

Test certificate



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Signal path 500MHz-6000MHz	Isolation minimal [dB]	Isolation measured [dB]
A1 / A2	17	18,1
A1 / A3	17	26,1
A1 / A4	17	26,1
A2 / A3	17	26,1
A2 / A4	17	26,1
A3 / A4	17	18,0
B1 / B2	17	18,9
B1 / B3	17	24,0
B1 / B4	17	24,0
B2 / B3	17	24,0
B2 / B4	17	24,0
B3 / B4	17	18,8
C1 / C2	17	18,4
C1 / C3	17	24,9
C1 / C4	17	24,9
C2 / C3	17	24,9
C2 / C4	17	24,9
C3 / C4	17	18,2
D1 / D2	17	18,9
D1 / D3	17	24,3
D1 / D4	17	24,3
D2 / D3	17	24,3
D2 / D4	17	24,3
D3 / D4	17	18,9
E1 / E2	18	18,3
F1 / F2	18	18,4
G1 / G2	18	18,3
H1 / H2	18	18,3

written out on: 12.04.2006 tested from: Firtina

The undersigned, respresently the following manufacturer

manufacturer : MTS Systemtechnik GmbH

address : D-86690 Mertingen
Gewerbepark 8

herewith declares that the product

product indentification : Splitter Unit 4x 1:4 / 4x 1:2

MTS-Nr. : 53.90.1650

is in conformity with the provisions of the following EC directive(s)

reference –n°.::	title
73/23/EEC	Low Voltage directive
89/336/EEC	EMC

and that the standards and/or technical specification referenced overleaf have been applied.

Last two digits of the year in which the CE marking was affixed: 06

(when compilance with the provision of the Low Voltage directive 73/23/EEC is declared)

place: Mertingen

date: 11/04/2006


signature

Bremer, general manger
name and function

References of standarts and/or technical specifications applied for this declarartion of conformity, or parts there of:

harmonized standards:

n°.	issue	title	parts
EN 55011/A	10/97	Industrial, scientific and medical (ISM) radio-frequency equipment – Radio disturbance characteristics – Limits and methods of measurement	
ENV 50141	04/94	Electromagnetic compatibility – Basic immunity standard – Immunity to conducted disturbances, induced by radio frequency fields (Limits to EN 50082-2 10V)	
EN 61000-4-2	03/95	Testing and measurement techniques – Electrostatic discharge immunity test (Limits to EN50082-2 4/8kV)	
EN 61000-4-3	02/96	Electromagnetic compatibility (EMC) – Part4: Testing and measurement techniques – Section 3: Radiated, radio-frequency, electromagnetic field immunity test (Limits to EN 50082-2 10V/m)	
EN 61000-4-4	03/95	Electical fast transient/burst immunity test (Limits to EN50082-2 1/2kV)	

other standards and/or technical specifications:

n°.	issue	title	parts

other technical solutions, the details of which are included in the technical docmentation or the technical construction file:

Other references or information required by the applicable EC directive(s):
