

Attenuator Unit 0,5-6,0 GHz
PAH-6000/80-8

SPECIFICATIONS

Specification PAH-6000/80-8

Frequency range:	500MHz - 6000MHz		
Impedance:	50Ω		
Insertion loss:	14dB typ.		
VSWR IN/OUT:	0,5GHz – 1,8GHz	2,7 : 1 typ.	
	1,8GHz – 3,0GHz	1,4 : 1 typ.	
	3,0GHz – 5,0GHz	2,7 : 1 typ.	
	5,0GHz – 6,0GHz	2,0 : 1 typ.	
Attenuation:	0dB to 93dB in 1dB-steps		
Gradation:	1dB / 2dB / 4dB / 8dB / 16dB / 30dB / 32dB		
Setting accuracy:	from	0,2 – 3GHz	3,0 – 6GHz
	for 1dB	±0,4dB	±0,4dB
	for 2dB	±0,8dB	±0,8dB
	for 3dB to 9dB	±0,8dB	–1,0dB +1,5dB
	for 10dB to 29dB	±1,5dB	–1,5dB +2,0dB
	for 30dB to 69dB	±3,0dB	–3,0dB +3,5dB
	for 70dB to 79dB	±3,0dB	–3,0dB +5,0dB
	for 80dB to 89dB	±3,0dB	–5,0dB +8,5dB
	for 90dB to 93dB	±6,0dB	–10,0dB +20,0dB
Input power:	+24dBm max.		
RF-connectors:	N-female		

Electrical specifications

Power supply:	100V to 240V AC at 50/60Hz 0,05A at 230V AC nom.
Control display:	control lamp in power switch control-LED for 5V DC at the power supply unit
Voltage supply:	standard rubber connector

Mechanical data

Deviations:	19" desktop enclosure, 3HU-84TE-310mm (dimensions without handles and connections)
Front side:	colorless anodized
Rear side:	colorless anodized
Weight:	7,0kg

Test certificate

device-no.: 69.00.0380	project: Attenuator Unit 0,5-6,0 GHz	
serial-no.: 260062-001-0010	product: PAH-6000/80-8	state: 00

Source power must be set to -10dBm.

1. Measurement of the VSWR and measurement of the insertion loss (500 – 6000MHz)

For all measurement use a calibrated network analyzer. Carry out the test steps at the described frequency range. The attenuator of the measured signal path must be set to 0dB attenuation.

Signal path	Insertion loss 14dB typ.	0,5 – 1,8 GHz VSWR IN/OUT 2,7:1 typ.	1,8 – 3,0 GHz VSWR IN/OUT 1,4:1 typ.	3,0 – 5,0 GHz VSWR IN/OUT 2,7:1 typ.	5,0 – 6,0 GHz VSWR IN/OUT 2,0:1 typ.	OK
X11-X21	12,8	2,1:1	1,6:1	2,8:1	1,9:1	✓
X12-X22	12,6	2,0:1	1,5:1	2,8:1	1,9:1	✓
X13-X23	12,4	2,1:1	1,5:1	2,6:1	2,2:1	✓
X14-X24	12,7	2,2:1	1,6:1	2,7:1	2,0:1	✓
X15-X25	12,9	2,1:1	1,6:1	2,8:1	2,1:1	✓
X16-X26	12,7	2,1:1	1,6:1	2,6:1	2,1:1	✓
X17-X27	12,4	2,1:1	1,5:1	2,7:1	2,0:1	✓
X18-X28	12,6	2,1:1	1,5:1	2,8:1	2,1:1	✓

written out on: 12.04.2006

tested from: Fritina

Kunde / Customer : Qosmotec software solution

Auftr.Nr. / Order No. : 260062

MTS Nr. / No. : 69.00.0380

GeräteTyp /Unit Type : PAH-6000/80-8

Seriennr. /Serialno. : 260062-001-0010

1) Sichtprüfung / Visual check

ja/yes nein/no entf./n.n. Bem./rem.

- das Gerät hat keine erkennbaren Schäden /
there are no visible defects on the device
- die Leitungen sind unbeschädigt /
leads are undamaged
- die Schutzleiter sind gelb/grün gekennzeichnet /
equipment earth is marked yellow/green
- die Schutzleiteranschlüsse sind gekennzeichnet /
equipment earth connectors are marked
- Abdeckung/Isolierung sind fachgerecht /
covers/isolation are correct

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☒	☐	☐	☐
☒	☐	☐	☐
☒	☐	☐	☐
☒	☐	☐	☐

2) Kennzeichnung / Marks

- Sicherung (Art / Nennstrom / Nennspannung / Charakteristik)
Fuses (Typ / nominal current / nominal voltage / characteristic)
- Typenschild (gemäß MTS Norm) /
Identification plate (according to MTS Norm)

☒	☐	☐	☐
☒	☐	☐	☐

Bemerkungen ggf. unten notieren

3) Anschlußwerte / Operating values

Nennspannung

100-240V

Nominal voltage

Nennfrequenz

50-60 Hz

Nominal frequency

Nennstrom

0,05A / 230V

Nominal current

4) VDE – Prüfung / EN 50116 test

Prüfungsart / Test Method	Anforderungen / Standard	Ergebnis / Meas. Value	Bestanden / Passed
Schutzleiterwiderstand / Earth Resistance	R _{PE} max. 0,1 Ω	< 0,1 Ω	✓
Spannungsfestigkeit / Electric Strength	max. 1,5 kV / 1 sec.	i. O.	✓

Bemerkungen / Remarks:

geprüft / checked:

Datum

Date

12.04.2006

Name:

Jannam

Unterschrift / Signature

Jannam

The undersigned, represents the following manufacturer

manufacturer : MTS Systemtechnik GmbH

address : D-86690 Mertingen

Gewerbepark 8

herewith declares that the product

product identification : PAH-6000/80-8

MTS-Nr. : 69.00.0380

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 compliance 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 standards and/or technical specifications applied for this declaration of conformity, or parts thereof:

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	Electrical 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 documentation or the technical construction file:

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