

MICROWAVE-GENERATOR

comprising:

MW-Power supply
Magnetron-Head

MX4000D-110LL
MH2000S-215BB

2,45 GHz

2000 W CW-HF-Output Power
4000 W Pulse-HF-Output Power

Operating Instructions

Revision 0.0
January 2002
muegge d/n do010

Customer : Roth und Rau
Komm.Nr. : 1303012
Rev. : 00
Date : 23.01.2002

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SPECIFICATIONS

1.1

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MICROWAVE-GENERATOR comprising:

MICROWAVE POWER SUPPLY MX4000D-110LL
MAGNETRON HEAD MH2000S-215BA

Specifications:

Frequency	-	2.450 GHz +/- 10Hz	
CW-HF- Power-Output	-	2000 W max. with matched load; 0...100% adjustable;	
Ripple	-	<30%	
Pulse-HF- Power Output	-	4000W max. (pulseable to appr. 500Hz)	
Waveguide- flange	-	UDR26	
Magnetron	-	MB2568A-120BH with	
		Anode voltage	- -3500 V and
		Anode current	- 725 mA
Cooling	-	MW-Power supply	:aircooled, watercooled: 3l/min;3bar max.
		Magnetron head	:aircooled; watercooled:3l/min;3bar max.
Mains supply	-	3x400V/ 6A / 50-60Hz	: on Plug X1
Auxiliary supply	-	230V / 50-60Hz / 2A	: on Plug X1
Programming	-	serial Interface	: on jack RS232
Operation	-	CAN-Bus- Interface	: on plug CAN

Assembly:

MW-Power Supply	-	plug-in case 19", 3 Units, 460mm depth
Magnetron Head	-	Closed box; watercooled; Waveguide flansch PDR 26; Dimensions: LxWxH: 230mm x 125mm x 300mm

ASSEMBLY

1.2.1

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MW-POWER SUPPLY
MAGNETRON-HEAD

MX4000D-110LL
MH2000S-215BB

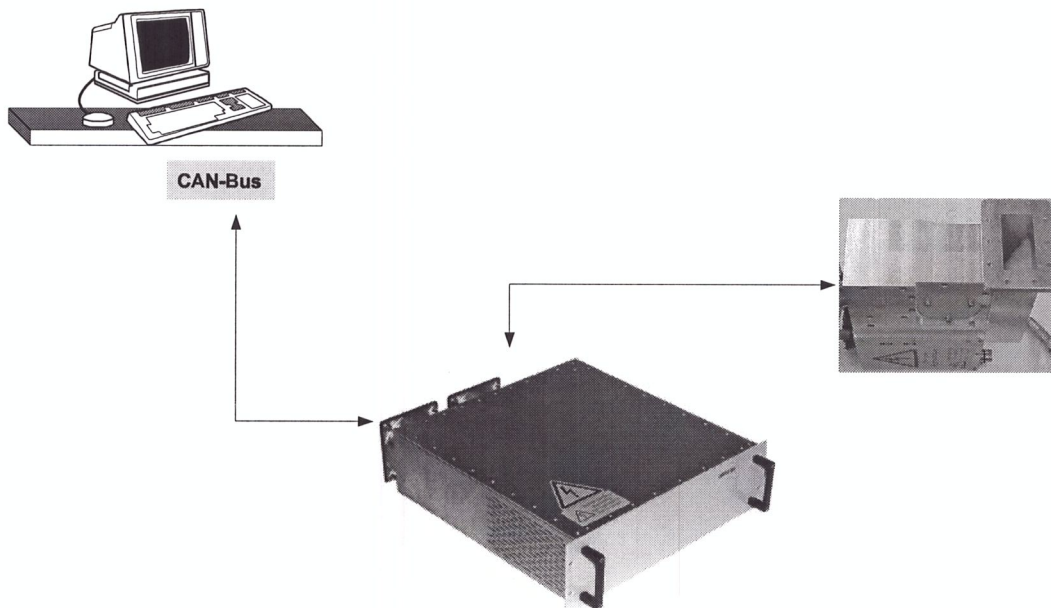
Schematic Assembly

Operation over CAN-Bus

MW-Power Supply
MX4000D-110LL

2KW CW-Output-power and
4kW Pulse-Output-power with
CAN-Bus->Connection

MAGNETRON-HEAD MH2000S-215BB
with waveguide flange UDR 26



ASSEMBLY

1.2.2

D/N: do010122

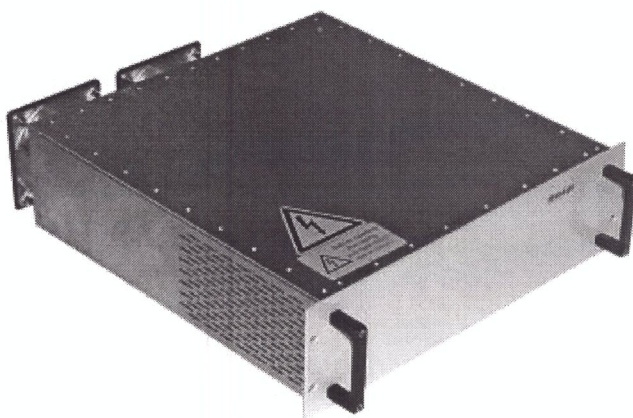
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MW-POWER SUPPLY

MX4000D-110LL

View



MX4000D-110LL Shortdescription:

- Switch mode power supply;
- 2KW CW-HF-output power;
- 4KW Pulse-HF-output power;
- Operation over the CAN-Bus-Interface;
- air- and watercooled;

ASSEMBLY

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do010123

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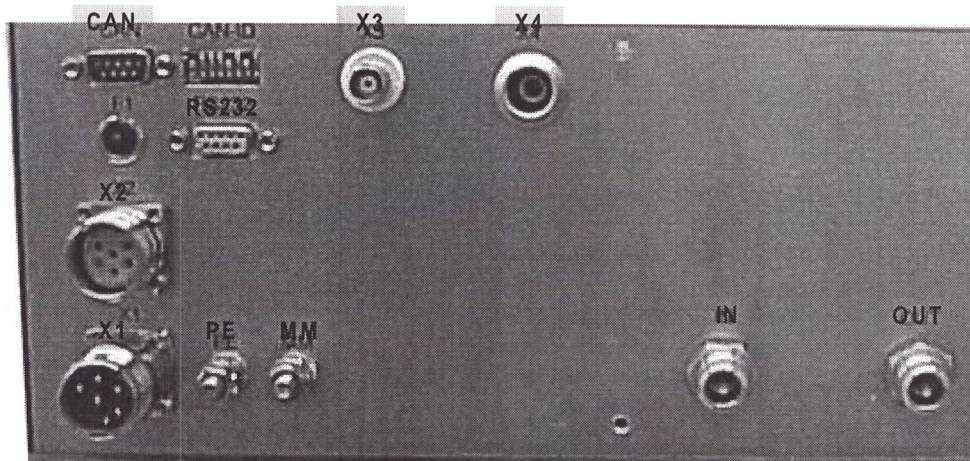
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1.2.3

MW-POWER SUPPLY

MX4000D-110LL

Connectors Rear side



Connectors:

X1	:	Auxiliary voltage 230V / 50-60Hz / 2A Mains voltage 3x400V / 50-60Hz / 6A
X2	:	Magnetron-Head-jack 1 (Filament transformer/ Thermoswitch Magnetron)
X3	:	Reflected power
X4	:	HT-Jack
RS232	:	serial programming interface
CAN	:	CAN Interface
PE	:	PE- bolt
MM	:	GND- bolt
IN	:	cooling water intet
OUT	:	cooling water outlet