6.0kW, 2450MHz Microwave Generator

Richardson Electronics newest line of microwave generators has been designed for industrial heating applications and plasma generation. The generator is based on a new, reliable and high-performance switch-mode power supply. A dc filament supply allows the magnetron to generate a clean output spectrum throughout the power band. Multiple control options including manual, remote analog and remote digital offer a user-friendly interface.

Features and Benefits

- Modern switch-mode circuit topology
- Configurable control options
- · Isolated dc filament supply for magnetron
- · Extremely low-ripple for best spectral output
- Long magnetron life
- Reliable & cost-effective

Applications

Industrial Heating:

- Drying of food and materials
- · Heating of food and materials
- Vulcanization & Polymerization

Plasma:

- CVD and PECVD for diamond growth
- Surface treatment
- Thin film deposition
- Gas abatement and gasification

Specifications	
Power Output:	300-3000W
Frequency:	2.45GHz ± 15GHz
Power Regulation:	10-100%
Ripple:	<3% of output power
Microwave Connections:	WR340 w/ CPR340 flange
Generator Control:	Manual; Remote Analog (plc) Remote: Digital RS485, Modbus, user defined (custom)
AC Power Input:	3x 400V/480V ± 10%
Power Supply:	PS6000x
Housing:	3U, 19" rack
Dimensions:	132.9mm(H) x 482.6mm(W) x 541.8mm(D)
Cooling:	Water (≥4 I/min); Air (200m3/hr)
Power Head:	MH6.0W
Housing:	Rolled steel (305mm(H) x 381mm(W) x 305mm (D)
Cooling:	Water:≥4 I/min, max 5bar 20-30°C

Note: Specifications subject to change without notice.

ARichardson Electronics

rell.com | relltubes.com | sales@rell.com

40W267 Keslinger Road PO Box 393, LaFox, IL 60147 USA 1.800.348.5580 (USA & Canada) 1.630.208.2200 (International)

©2022 Richardson Electronics, Ltd and it's affiliates reserve the right to make changes to the product (s) or information contained herein without notice. Richardson Electronics assumes no responsibility for any errors which may appear in this document. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Richardson Electronics. Ltd.









6.0kW, 2450MHz Microwave Generator

Options:

Power Measurement Unit

Outline Drawing:



Note: Unless otherwise noted, dimensions are nominal values in mm. Specifications subject to change without notice.



rell.com | relltubes.com | sales@rell.com

40W267 Keslinger Road PO Box 393, LaFox, IL 60147 USA 1.800.348.5580 (USA & Canada) 1.630.208.2200 (International)

©2022 Richardson Electronics, Ltd and it's affiliates reserve the right to make changes to the product (s) or information contained herein without notice. Richardson Electronics assumes no responsibility for any errors which may appear in this document. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Richardson Electronics, Ltd.



Outline Drawing:



Ordering Information:

Please contact your local Richardson Electronics sales office for price and availability information.

Note: Unless otherwise noted, dimensions are nominal values in mm. Specifications subject to change without notice.



rell.com | relltubes.com | sales@rell.com

40W267 Keslinger Road PO Box 393, LaFox, IL 60147 USA 1.800.348.5580 (USA & Canada) 1.630.208.2200 (International)

©2022 Richardson Electronics, Ltd and it's affiliates reserve the right to make changes to the product (s) or information contained herein without notice. Richardson Electronics assumes no responsibility for any errors which may appear in this document. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Richardson Electronics, Ltd.