

HIGH POWER AMPLIFIER



R&K-A1300BW20-6565R




- All Solid-State Power Amplifier
- Frequency Range : 1300MHz ± 10MHz
- Output Power : 3kW (min.) @Psat (CW)

SPECIFICATIONS @ +25°C

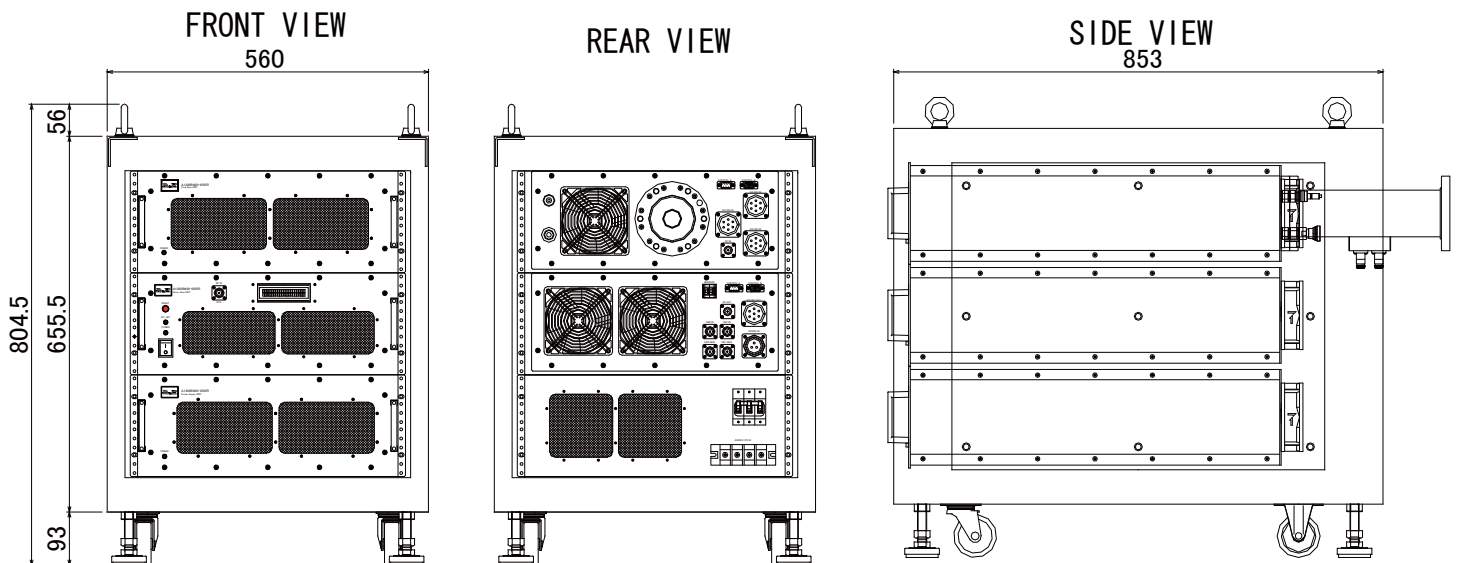
Frequency Range	: 1300MHz ± 10MHz
Power Gain	: +65.0dB (typ.) @Po=3kW
Gain Flatness	: ±2.0dB (max.)
Output Power	: 3kW (min.) @Psat.
Operation Mode	: Class AB
Harmonics	: -30.0dBc (max.) @Po=3kW
Spurious	: -60.0dBc (max.) @Po=3kW
Impedance	: 50Ω
Input Return Loss	: -15dB (max.)
Maximum RF Input Power	: +3.0dBm
AC Supply Input	: AC200V ± 15% / 3 φ , 50 / 60Hz, 15kVA
Operating Temperature	: +10°C to +35°C
Storage Temperature	: 0°C to +55°C
Connectors	: RF - IN N - FEMALE RF - OUT 3 1/8" EIA Flange
Size	: (W)560mm × (D)853mm × (H)804.5mm
Weight	: 200.0kg (max.)
Cooling	: Forced Air Cooling and Water Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection Output Over Reflection Power Protection
Metering	: R&K Digital Panel Metering System
Other	: With Output Circulator

HOW TO ORDER

Model Name
R&K-A1300BW20-6565R OP XX  Option: Ask

OUTLINE DRAWING

※ IN MILLIMETERS



R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.

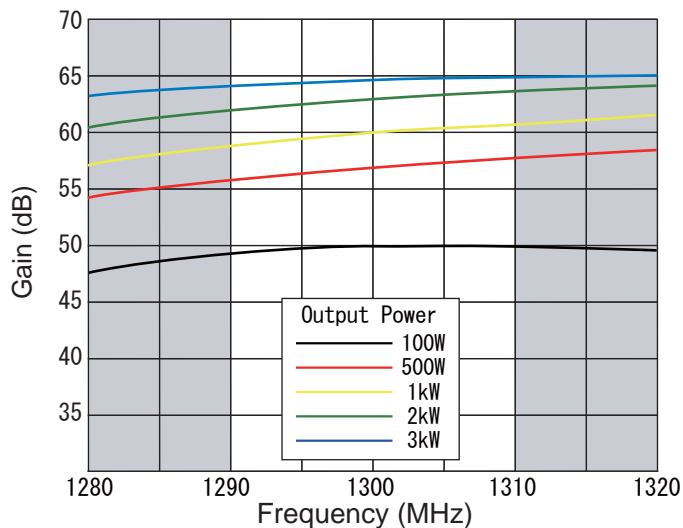
R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan
Tel: +81-545-31-2600 E-mail: info@rkco.jp
Fax: +81-545-31-1600 URL: http://rk-microwave.com

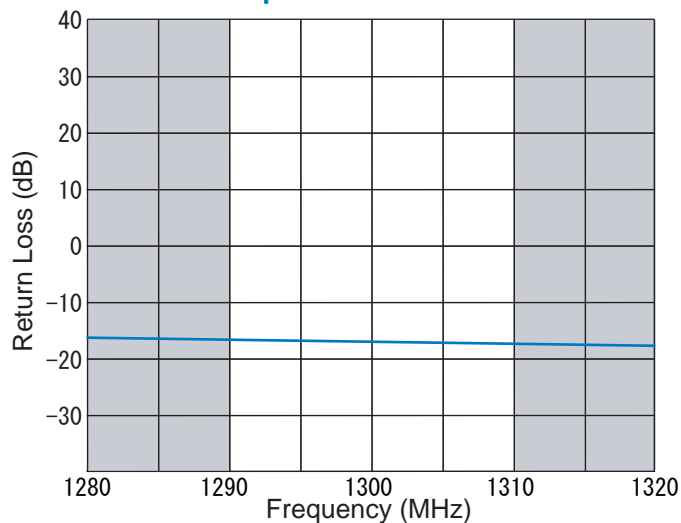
TYPICAL PERFORMANCE (Temp @+25°C)

R&K-A1300BW20-6565R

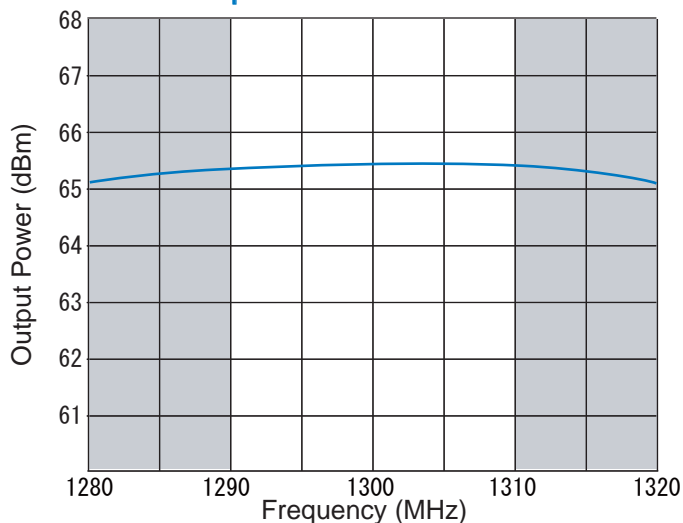
Power Gain Flatness



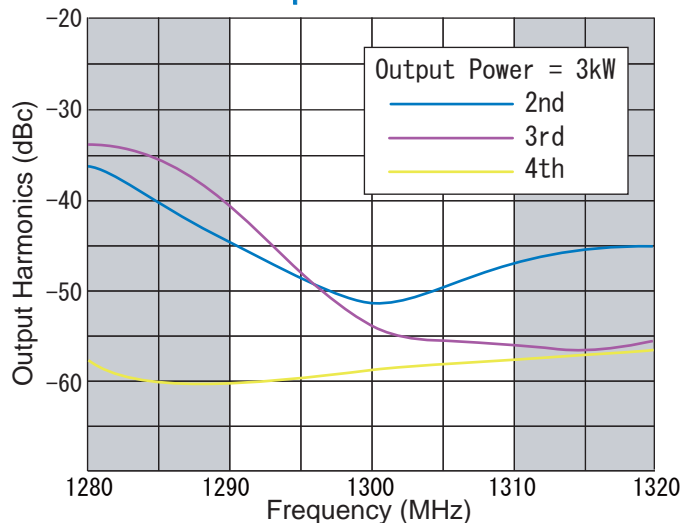
Input Return Loss



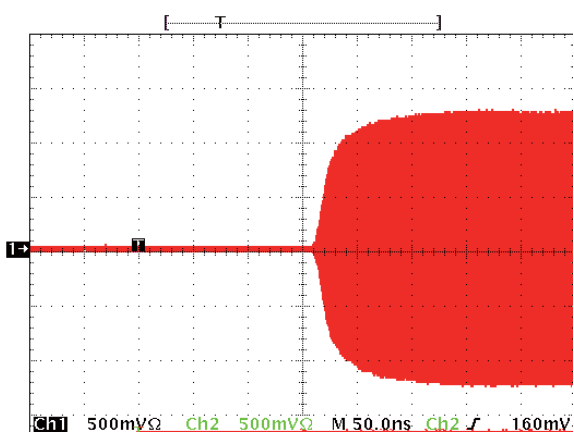
Output Power Psat. @CW



Output Harmonics



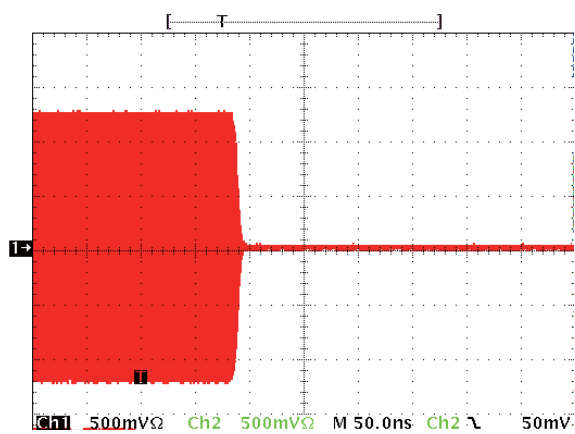
Pulse Rise Time



Rise time ≤ 60 nsec

f=1300MHz Duty10%(1msec/10msec) Po=3kW(Peak)

Pulse Fall Time



Fall time ≤ 20 nsec

f=1300MHz Duty10%(1msec/10msec) Po=3kW(Peak)

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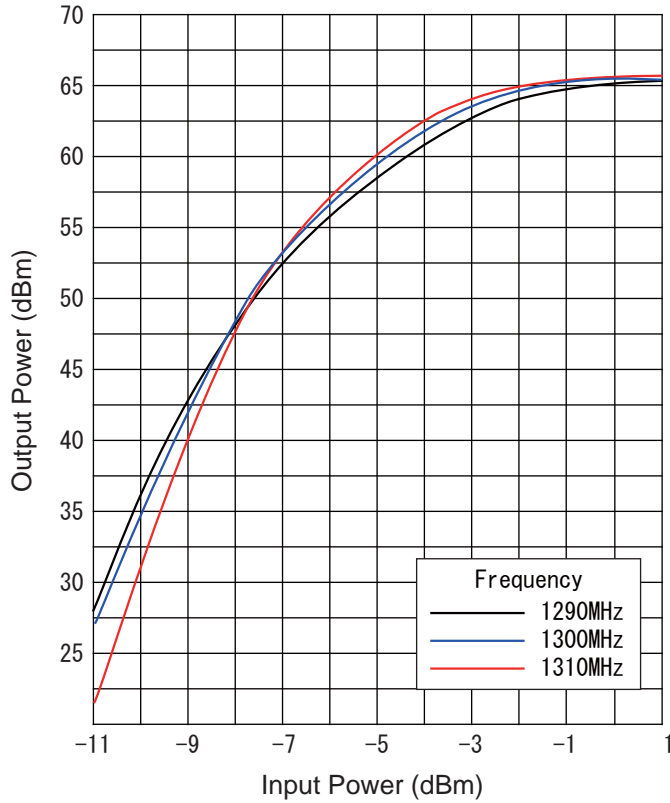
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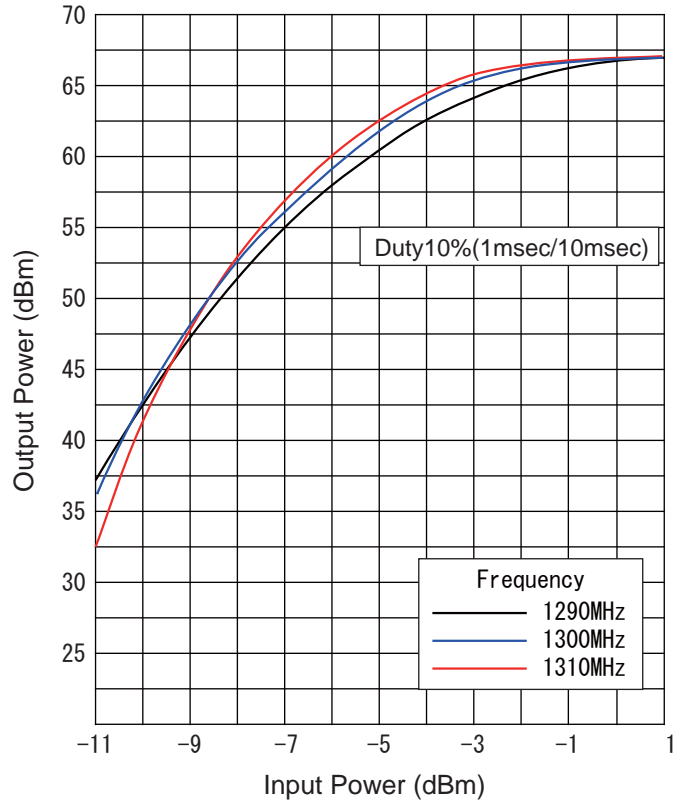
TYPICAL PERFORMANCE (Temp @+25°C)

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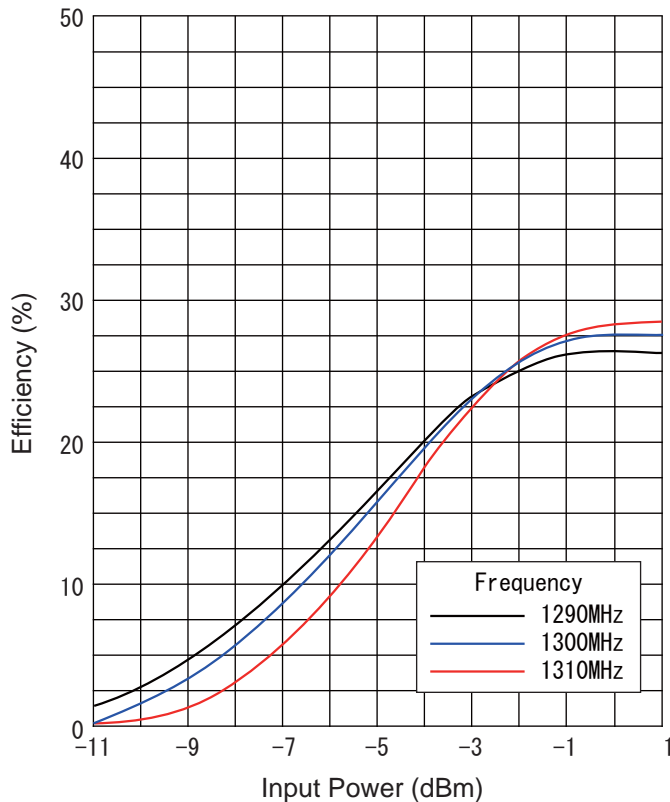
Output Power Linearity @CW



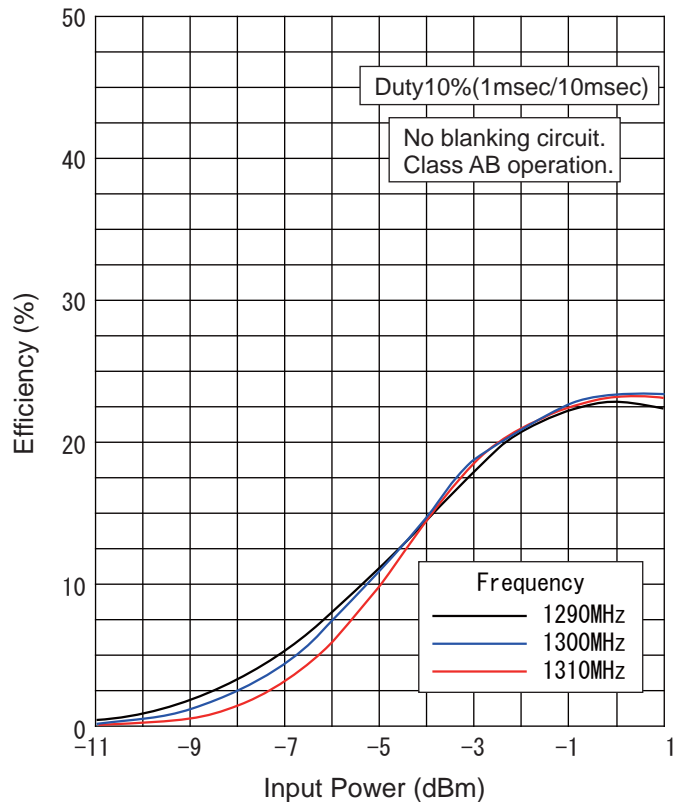
Output Power Linearity @Pulse Signal



Output Power Efficiency @CW



Output Power Efficiency @Pulse Signal

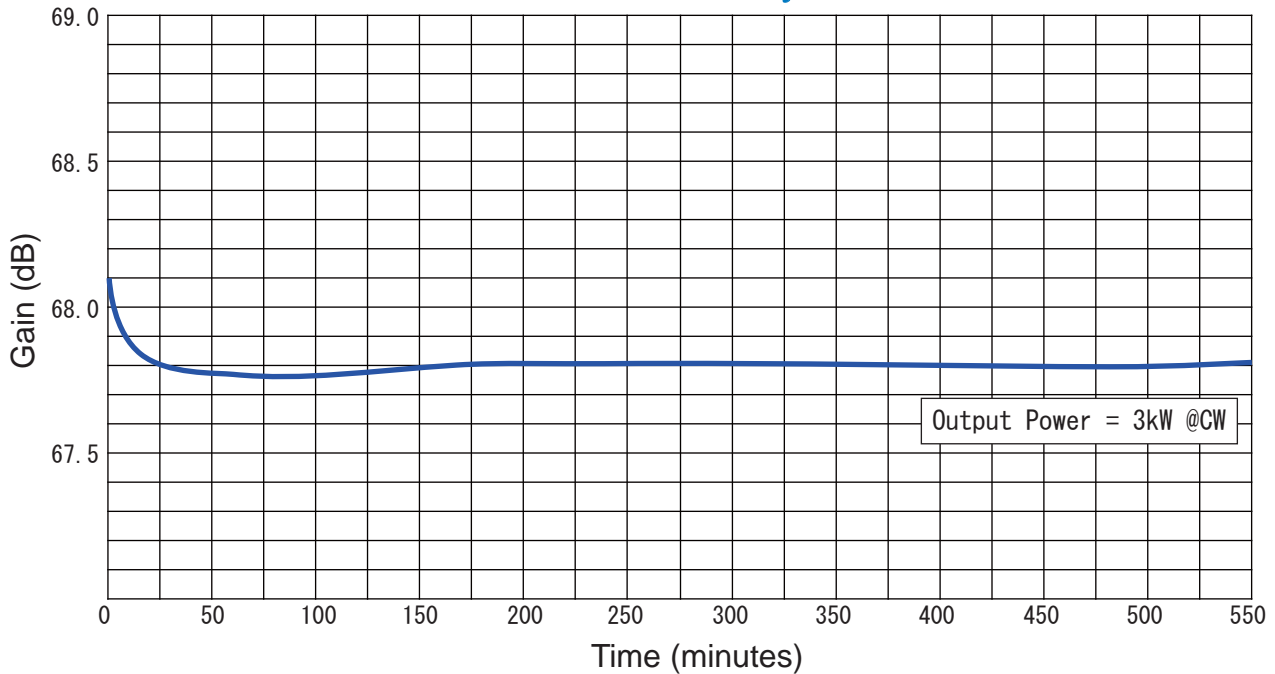


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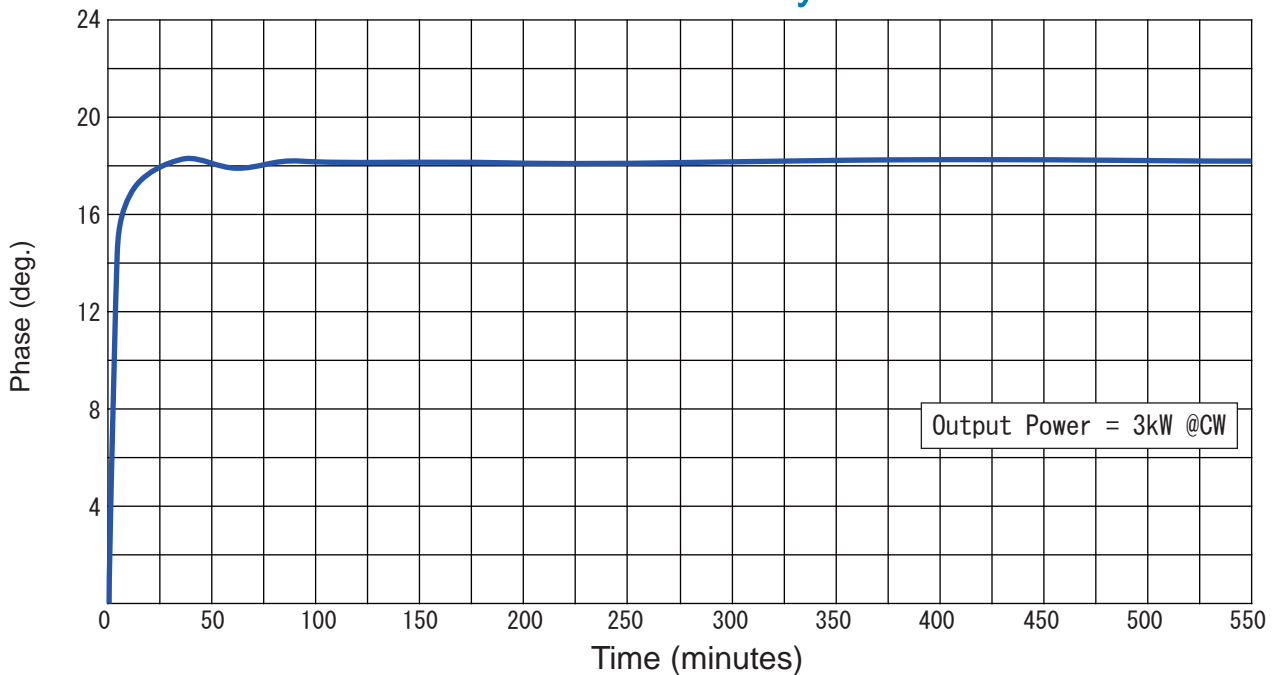
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Gain Stability



Phase Stability



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