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GSI Instruments Co., Ltd.

Power amplifier MCA-2320B

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## Power amplifier MCA-2320B

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## 1. SPECIFICATION

ITEM	Dimension
Frequency Range	2624MHz to 2673.5MHz
Output Power	20Watts average. (Signal Source : OFDMA 1FA, CCDF=11dB@0.01%)
RF GAIN $\phi$	55dB $\pm$ 0.5dB
Gain Flatness	$\pm$ 1.0dB within 49.5MHz
	$\pm$ 0.5dB over any 10MHz
Gain Variation	$\pm$ 1.0dB @ -55 $^{\circ}$ C ~ +55 $^{\circ}$ C
ACPR	$\leq$ -49dBc @ $\pm$ 6MHz @ +25 $^{\circ}$ C
	$\leq$ -46dBc @ $\pm$ 6MHz @ -5 $^{\circ}$ C ~ +55 $^{\circ}$ C
	@ RBW = 1 MHz (Reference Bandwidth)
Spurious	$\leq$ -58dBc @ $\pm$ 15MHz @RBW=1MHz(Resolution Bandwidth)
Harmonics (2 <sup>nd</sup> )	$\leq$ -45dBc
Dynamic Range	$\geq$ 25dB
Noise Level (TDD OFF MODE)	$\leq$ -84dBm @ RBW = 10MHz
TDD On/Off Speed	< 3 $\mu$ s
Normal Operating Voltage	-48Vdc
Operating Voltage	-42Vdc ~ -56Vdc
Input VSWR	$\leq$ 1.5 (Return Loss $\leq$ -14dB)
Output VSWR	$\leq$ 1.5 (Return Loss $\leq$ -14dB)
Input Power	Normal -12dBm
Efficiency	$\geq$ 6% @-48Volts
Operating Temperature	-5 $^{\circ}$ C to +55 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Relative Humidity	10% to 90% RH (Non-Condensing)
Test Sample Port	-40dB $\pm$ 0.5dB
Vibration Specification	PSD : 0.015 g <sup>2</sup> / Hz from 5 to 40 Hz, Sloping to 0.00015 g <sup>2</sup> / Hz at 500Hz
RF Connector	D2A4P
MTBF	$\geq$ 100,000 Hour
Outline Dimension	BTS Type 461.3mm $\times$ 321.8mm $\times$ 71mm (W $\times$ H $\times$ D)