

**SATCOM TRANSMITTER**

# Up-Converter

## Up-Converter UC6800



### TYPICAL SPECIFICATIONS

**[Frequency]**

<b>Output frequency</b>	6700 to 7000 MHz
<b>Input frequency</b>	950 to 1250 MHz
<b>LO frequency</b>	5750MHz
<b>Frequency sense</b>	No inversion
<b>Internal reference Signal frequency</b>	10MHz (10MHz In presence of external ref signal, the unit shall lock to the external ref automatically)
<b>Frequency stability</b>	±1 ppb/day max @fixed temperature ±10 ppb/day max @0 to 50 °C

**[IF input characteristics]**

<b>IF input level</b>	-10dBm max
<b>IF input connector</b>	N-female (50 Ohms)
<b>Input return loss</b>	15dB min

**[RF output characteristics]**

<b>RF output level</b>	+15dBm min @P1dB -60dBc max @Carrier mute
<b>Spurious</b>	-60dBc max @0dBm output -60dBm max without carrier
<b>RF output intermodulation</b>	-50dBc max @0dBm total output power
<b>RF output connector</b>	N-female (50 Ohms)
<b>Output return loss</b>	18dB min

**[Transfer characteristics]**

<b>Gain</b>	30dB min @0dB attenuation
<b>Gain control</b>	Δ20dB, 0.5dB step
<b>Gain flatness</b>	±1.5dB over full band ±0.5dB over 40MHz band
<b>Gain stability</b>	±0.5dB/day max @fixed temperature ±1.0dB max over temperature
<b>Noise figure</b>	15dB max @0dB attenuation
<b>Phase noise (SSB)</b>	-65dBc/Hz max @100Hz -75dBc/Hz max @1KHz -85dBc/Hz max @10KHz -90dBc/Hz max @100KHz

**[Power]**

<b>Power requirement</b>	230 VAC, 50 Hz Power on switch is provided
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**[Mechanical & Environmental]**

<b>Physical size</b>	1U, 19 inch rack mountable
<b>Operating temp</b>	0 to 50 °C

**[Front/Rear panel]**

<b>Front panel indicator (LED)</b>	Power status LO Lock status
<b>Rear panel interface</b>	AC Power Input IF input RF output External reference input (N-female) LAN for M&C (RJ-45)

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## OUTLINE DRAWING AND INTERFACE

