

# DUC864

DIGITAL UP CONVERTER



**DRAKE**  
**DIGITAL**

The DUC864 upconverter is designed specifically to upconvert a 44 MHz IF signal, modulated by a digital signal utilizing either 8-VSB or QAM modulation, without degradation to the digital transport stream that is ultimately recovered. The DUC864 can supply an output on any channel between 54 and 860 MHz. CATV or broadcast channel plans may be selected by a front panel switch. The DUC864 is packaged in an extruded aluminum case to be utilized with other Drake Digital component series products.

## Drake Digital DUC864 Technical Specifications

IF Input	
Frequency:	44 MHz.
Input Level:	+30 dBmV, $\pm 2$ dB.
Input Impedance:	75 Ohms, return loss > 20dB.
RF Output	
Frequency Range:	54-860 MHz, Standard Cable TV Channels 2-135; Broadcast TV Channels 2-69.
Output Level:	+45 dBmV, 15 dB adjustment range.
Broadband Noise:	-73 dBc (6 MHz bandwidth) @ +45 dBmV output level.
In Channel C/N:	63 dB (6 MHz bandwidth) @ +45 dBmV output level.
Spurious Outputs (5 MHz to 900 MHz):	-60 dBc @ +45 dBmV output level.
Impedance:	75 Ohms, return loss > 10dB, typical.
Amplitude Flatness Over 6 MHz Channel:	$\pm 0.4$ dB maximum.
SSB Phase Noise:	-95 dBc @ 10 KHz Offset, -70 dBc @ 1 KHz Offset

Frequency Stability:	± 5 PPM
MER:	30 dB minimum (unequalized). 38 dB minimum (with blind equalizer).
<b>General</b>	
DC Power Input:	+12 V ±5% at 300 ma. +5 V ±5% at 350 ma.
Operating Temperature:	0°C to +50°C, ambient.
Size:	1" W x 3.5" H x 9.25" D (2.5 cm W x 8.9 cm H x 23.5 cm D)
Weight:	14.5 oz. (0.41 Kg.).

Features, price, and specifications are subject to change without notice or obligation.