



OTUC-400 Series
SpectrumPlus Upconverter 4x 5-42MHz
INSTRUCTION MANUAL

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TABLE OF CONTENTS

SPECIFICATIONS	Page 3
OPERATIONAL SETUP	Page 4

OTUC-400 Series Specifications

RF PERFORMANCE PARAMETERS:

Input Frequency Range (4 Inputs)	5 MHz to 42 MHz
Output Spectrum (stacked) (Spectrum Inverted on Bands 2,3 & 4)	5 MHz to 206.5 MHz Band 1 - 5 MHz to 42 MHz (non-converted) Band 2 - 51.5 MHz to 88.5 MHz Band 3 - 121.5 MHz to 158.5 MHz Band 4 - 169.5 MHz to 206.5 MHz
Frequency Accuracy	Each converted band phase locked to internal 4.5 MHz pilot
Gain (each input to combined output)	15 db +/- 1 dB
Gain Flatness	< 3 dB in any band
Noise Figure	14 dB maximum
Maximum Input Signal	+15 dBmV/carriers (6 carriers)
Phase Noise	> -110dBc Hz @ 10 KHz
Input Return Loss	> 15 dB (5 MHz to 42 MHz)
Output Return Loss	> 15 dB (5 MHz to 206.5 MHz)
3 rd Order I.M. @ +15 dBmV Input/Carrier	> 55 dB; typically > 60 dB (6 carriers)
2 nd Order I.M. @ +15 dBmV Input/Carrier	> 55 dB (6 carriers)
L.O. Rejection	Band 2 - 93.5162 MHz > 15 dB Band 3 - 163.5469 MHz > 15 dB Band 4 - 211.500 MHz > 15 dB
<i>(Measured relative to Input Carriers @ +15 dBmV/carrier)</i>	Band 2 - 98.5 MHz to 133.5 MHz Band 3 - 168.5 MHz to 203.5 MHz Band 4 - 216,5 MHz to 251.5 MHz
Image Rejection <i>(55 dB minimum; 60 dB typical)</i>	4.5 MHz @ +25 dBmV
Pilot Output	

ENVIRONMENTAL PARAMETERS:

Power Requirements	Univeral Power, 100-240 VAC @ 16 Watts
Size (Upconverter)	1.25"H x 19"W x 13"D
Operating Temperature Range	-40 to +85 degrees C (-40 to +185 degrees F)

