



# Modular TV modulators

## Twin TV modulators

Modulating analogue video/audio signals into VSB RF channel with mono or stereo A2 sound.

- frequency agile vestigial sideband TV modulators
- LED display and push buttons control of internal microprocessor
- non-volatile channel memory
- PLL crystal stabilization of carriers frequency
- adjustable RF output level and audio input level
- loop through RF combining
- low level harmonics and intermodulation products
- built-in test pattern generator
- robust die-cast housing
- connectors:
  - video/audio input - RCA socket
  - RF - type F
  - screw terminal block for DC entry
  - power distribution bus

**mt420**  
twin TV modulator,  
standard B/G/D/K/I/L/Au

**mt420C**  
twin TV modulator,  
standard B/G/D/K/Au stereo A2



Technical specifications		mt420	mt420C
T Y P E		mt420	mt420C
Ordering number		02872	02873
Sections		2	
TV standard	pr.	B/G/D/K/I/L/Au	B/G/D/K/Au stereo A2
Frequency range		110-862 MHz	
Video input	frequency range	20 Hz - 6 MHz	
	level/impedance	1 V ± 0.1 V/75 Ω	
Audio input	frequency range	20 Hz - 15 kHz	
	level/impedance	775 mV/10 kΩ	
	level adjustment	+ 6 ÷ -6 dB by 2 dB step	
RF output	level/impedance	90 dBμV/75 Ω	
	level adjustment range	0 ÷ -10 dB by 1 dB step	
	frequency range of RF combining	47-2150 MHz	
	DC pass through	0.3 A	
	combining through loss Terr/SAT	≤ 2.5 dB	
	return loss	≥ 10 dB	
Fine tuning range of video carrier frequency	pr.	± 2.25 MHz max. by 0.25 MHz step	
IF bandwidth	pr.	7/8 MHz	
S/N ratio, weighted		> 55 dB	
A/V ratio	pr.	12/16 dB	
IMD2/IMD3 spurious level		< -60 dB	
Current consumption		12 V 0.45 A	12 V 0.47 A
Operating temperature range		0° ± +50° C	
Dimensions/Weight (packed)		36x198x107.5 mm/0.9 kg	

pr. software control