Model 4200 Specifications Summary

Characteristics	Performance Requirements	Supplemental Information
Video Specifications		
Gain	1.0 ± 1%	Reference: White bar, FCC composite test signal.
Frequency Response	± 1% to 4.2 MHz ± 3% to 4.2 MHz	Bypass Mode ON Mode
Signal to Noise ratio	> 70 dB	5MHz bandwidth, unweighted.
Signal to Noise ratio, quiet line	> 70 dB	5MHz bandwidth, unweighted.
Spurious Signals	> 45 dB down, >10MHz	Relative to 100 IRE.
Multiburst Frequencies	500 kHz, 1.25 MHz, 2 MHz, 3 MHz, 3.75 MHz.	1 cycle at 100 kHz provided for setting depth of modulation.
Line Sweep	97.6 kHz to 4.375 MHz	97.6 kHz steps
Multiburst/Sweep Amplitude	100 IRE ± 2%	May be internally adjusted to a lower level if desired.
Multiburst/Sweep Flatness	± 0.25 dB	As measured with a spectrum analyzer adjusted for 300 kHz resolution bandwidth.
Multiburst/Sweep insertion range	Any single line, from 10 to 25	Both fields
Quiet line insertion range	From 0 (off) to 15 lines starting on any line from line 10 through line 25.	Both fields
IF Gate Specifications		
Input level	40 ± 6 dB	
Gain	0 ± 0.25 dB	At 45.75 MHz
Frequency Response	± 0.25 dB	42.0 to 46.25 MHz
Switch isolation	≥ 80 dB at 45.75 MHz	
Remote control	Ground closures to enable the IF gate and to switch the IF signal OFF/ON.	The IF gate can be adjusted for optimum performance for the spectrum analyzer being used.
General Specifications		
DC Input Voltage	8 to 11 VDC. 3 W max.	Power module provided.
Dimensions (H, W, D)		1.5H, 5.5W, 4.5D (inches)
Temperature range, operating	40° to 120° F	
Optional accessories	Rack adapter Heavy duty power module	Mount 3 4200s in 1 rack unit. Powers 3 4200s.

Note: The 4200 features IF gating for in-service CTB tests. This technique will produce a certain amount of sound buzz during the test. The amount of buzz is determined by the design of the television or set-top box. For most sets it's unobtrusive. For others its more apparent but doesn't overpower the program sound. The duration is typically one minute or less and can be minimized by controlling the 4200 from the field.

For additional information, contact:

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