

VT50 Model Number Builder

Video/Audio/Data Transmitter

RF Power

L/S/C Bands

5 = 5.0 W
7 = 2.0 W/5.0 W

UHF

1 = 5.0 W
2 = 10.0 W
3 = 5W/10W

Frequency Band (Other Ranges Available)

U = UHF	340.0-399.9 MHz	100 kHz BCD Steps
M = Lower L-band	1435-1535 MHz	1 MHz BCD Steps
L = Upper L-band	1700-1850 MHz	1 MHz BCD Steps
S = S-band	2200-2399 MHz	1 MHz BCD Steps
2 = ISM S-band	2400.00-2499.75 MHz	250 kHz BCD Steps
C = C-band	4400-4999 MHz	1 MHz BCD Steps
P = Public Safety C-band	4940-4990 MHz	1 MHz BCD Steps

Subcarrier 2 Frequency⁴

A = 4.83 MHz G = 7.20 MHz
B = 5.80 MHz H = 7.50 MHz
C = 6.00 MHz J = 8.30 MHz
D = 6.20 MHz K = 8.50 MHz
E = 6.50 MHz L = 8.59 MHz
F = 6.80 MHz M = Custom
Blank = None

Subcarrier Type³

Blank = None
A = Audio (10 kHz)⁵
D = Data (48 kbps)⁶

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Series

Finish

N = Nickel Plated
B = Black Plated

Frequency Selectability

F = Fixed Frequency (Specify with Dash Number)¹
B = Channelized w/ Rotary BCD Switches (Chassis-Mounted)²
R = Channelized w/ Serial RS232 (Remote Control)
D = Channelized w/ Programmable Binary Switch

Video Bandwidth / Pre-Emphasis

M = 3.5 MHz (Monochrome) / 525-Line Pre-Emphasis
N = 4.2 MHz (NTSC) / 525-Line Pre-Emphasis
P = 5.0 MHz (PAL) / 625-Line Pre-Emphasis
C = Custom Bandwidth and/or Pre-Emphasis

Subcarrier 1 Frequency⁴

A = 4.83 MHz G = 7.20 MHz
B = 5.80 MHz H = 7.50 MHz
C = 6.00 MHz J = 8.30 MHz
D = 6.20 MHz K = 8.50 MHz
E = 6.50 MHz L = 8.59 MHz
F = 6.80 MHz M = Custom
Blank = None

Frequency¹

(Fixed Frequency Only)
Enter the Frequency in MHz
(0000.00M format)
or
Offset Frequency²
(Channelized Only)
0 = 0.00 MHz Offset
2 = 0.25 MHz Offset
5 = 0.50 MHz Offset
7 = 0.75 MHz Offset

Notes:

- Fixed frequency models must have the Frequency specified after the dash at the end of the model number.
- Channelized models with 1 MHz steps (see Frequency Band for step sizes) must have an Offset Frequency specified after the dash at end of model number.
- Transmitter may be configured as video only or with one or two subcarriers.

4) Subcarrier Frequency Limits

- Monochrome Video - 4.83 MHz and higher
- NTCS Video - 5.8 MHz and higher
- PAL Video - 6.8 MHz and higher
- Separation (for 2 subcarriers) - 1 MHz min.

5) Audio Pre-Emphasis:

- 75 usec standard with NTCS video
- 50 usec standard with PAL video

6) Data Subcarriers are RS232 format with 100-48,000 bps data rate.



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