

Correspondence Reference Number: 38343
Form 731 Confirmation Number: EA457880

Dear Ms. Diane Poole

Thanks for your email addressed to Mrs Marita Latovehmas at SATEL Oy.

Referring to the items of your request, the following information has been prepared.

Emission designator 20K0F1D: There is a false statement.

The right ones are:

SATELLINE-3ASd Epic Pro 35W/125: 10K7F1D

SATELLINE-3ASd Epic Pro 35W/250: 20K3F1D

The Emission designator has been defined referring NTIA manual ("Red Book") /Annex J/Table:

Multilevel Frequency Shift Keying:

$$B_n = \frac{R}{\log_2 S} + 2DK$$

$$(K \leq 0.89)$$

SATELLINE-3AS Epic Pro 35W, 12.5 kHz channel spacing:

$$R = 9600 \text{ bps}$$

$$D = 3.3 \text{ kHz}$$

$$S = 4$$

$$K = 0.89$$

$$\frac{9600 \text{ bps}}{\log_2 4} + 2 * 3.3 \text{ kHz} * 0.89 = 10K7$$

SATELLINE-3AS Epic Pro 35W/250:

R=19200 bps

D=6.0 kHz

S=4

K=0.89

$$\frac{19200bps}{\log_2 4} + 2 * 6.0kHz * 0.89 = 20K3$$

F1D has been defined as:

F= Frequency modulation

1 = One channel containing digital information, no subcarrier

D= Telemetry

If any further information is needed for the application procedure, please do not hesitate to contact us at Satel.

Kind Regards,
Satel Oy
Marita Latovehmas