

衛星送信電力0.8W.地上アンテナ16.2dB.

DownLink

Table with 3 columns: Parameter, Value, Unit. Includes modulation type (GMSK F1D), antenna type (モノポールアンテナ), orbit height (400 km), Earth radius (6378.142 km), elevation angle (5 deg), and transmission loss (1.38E-23).

DownLink

Table with 3 columns: Parameter, Value, Unit. Includes modulation type (AFSK F2D), antenna type (モノポールアンテナ), orbit height (400 km), Earth radius (6378.142 km), elevation angle (5 deg), and transmission loss (1.38E-23).

DownLink

Table with 3 columns: Parameter, Value, Unit. Includes modulation type (CW A1A), antenna type (モノポールアンテナ), orbit height (400 km), Earth radius (6378.142 km), elevation angle (5 deg), and transmission loss (1.38E-23).

UpLink

Table with 3 columns: Parameter, Value, Unit. Includes modulation type (AFSK F2D), antenna type (クロス八木アンテナ), orbit height (400 km), Earth radius (6378.142 km), elevation angle (5 deg), and transmission loss (1.38E-23).

QPSK無線機

DownLink

Table with 3 columns: Parameter, Value, Unit. Includes modulation type (GMSK F1D), antenna type (モノポールアンテナ), orbit height (400 km), Earth radius (6378.142 km), elevation angle (5 deg), and transmission loss (1.38E-23).

Table with 3 columns: Parameter, Value, Unit. Transmission station parameters for CW A1A: frequency (145 MHz), output power (0.8 W), and transmission losses (L_FT_X, G_AT_X, P_E, L_AP_L).

Table with 3 columns: Parameter, Value, Unit. Transmission station parameters for AFSK F2D: frequency (145 MHz), output power (0.8 W), and transmission losses (L_FT_X, G_AT_X, P_E, L_AP_L).

Table with 3 columns: Parameter, Value, Unit. Transmission station parameters for CW A1A: frequency (145 MHz), output power (0.8 W), and transmission losses (L_FT_X, G_AT_X, P_E, L_AP_L).

Table with 3 columns: Parameter, Value, Unit. Transmission station parameters for AFSK F2D: frequency (435 MHz), output power (50 W), and transmission losses (L_FT_X, G_AT_X, P_E, L_AP_L).

Table with 3 columns: Parameter, Value, Unit. Transmission station parameters for GMSK F1D: frequency (435 MHz), output power (50 W), and transmission losses (L_FT_X, G_AT_X, P_E, L_AP_L).

Table with 3 columns: Parameter, Value, Unit. Propagation characteristics for CW A1A: free space loss (-140.80 dB), polarization loss (-3 dB), atmospheric absorption (0 dB), and total transmission loss (-143.80 dB).

Table with 3 columns: Parameter, Value, Unit. Propagation characteristics for AFSK F2D: free space loss (-140.80 dB), polarization loss (-3 dB), atmospheric absorption (0 dB), and total transmission loss (-143.80 dB).

Table with 3 columns: Parameter, Value, Unit. Propagation characteristics for CW A1A: free space loss (-140.80 dB), polarization loss (-3 dB), atmospheric absorption (0 dB), and total transmission loss (-143.80 dB).

Table with 3 columns: Parameter, Value, Unit. Propagation characteristics for AFSK F2D: free space loss (-150.34 dB), polarization loss (-3 dB), atmospheric absorption (0 dB), and total transmission loss (-153.34 dB).

Table with 3 columns: Parameter, Value, Unit. Propagation characteristics for GMSK F1D: free space loss (-150.34 dB), polarization loss (-3 dB), atmospheric absorption (0 dB), and total transmission loss (-153.34 dB).

Table with 3 columns: Parameter, Value, Unit. Ground station parameters for CW A1A: antenna gain (16.2 dB), noise floor (-127.57 dBW), and system noise temperature (315 K).

Table with 3 columns: Parameter, Value, Unit. Ground station parameters for AFSK F2D: antenna gain (16.2 dB), noise floor (-127.57 dBW), and system noise temperature (315 K).

Table with 3 columns: Parameter, Value, Unit. Ground station parameters for CW A1A: antenna gain (16.2 dB), noise floor (-127.57 dBW), and system noise temperature (315 K).

Table with 3 columns: Parameter, Value, Unit. Ground station parameters for AFSK F2D: antenna gain (1.27 dB), noise floor (-133.58 dBW), and system noise temperature (315 K).

Table with 3 columns: Parameter, Value, Unit. Ground station parameters for GMSK F1D: antenna gain (16.2 dB), noise floor (-119.15 dBW), and system noise temperature (315 K).

Table with 3 columns: Parameter, Value, Unit. Implementation loss estimate for CW A1A: L_p (1 dB), L_g (0 dB), L_o (0 dB), bit rate (9,600 bps), and margin (25.63 dB).

Table with 3 columns: Parameter, Value, Unit. Implementation loss estimate for AFSK F2D: L_p (1 dB), L_g (0 dB), L_o (0 dB), bit rate (12,000 bps), and margin (21.06 dB).

Table with 3 columns: Parameter, Value, Unit. Implementation loss estimate for CW A1A: L_p (1 dB), L_g (0 dB), L_o (0 dB), bit rate (26.7 bps), and margin (37.59 dB).

Table with 3 columns: Parameter, Value, Unit. Implementation loss estimate for AFSK F2D: L_p (1 dB), L_g (0 dB), L_o (0 dB), bit rate (1,200 bps), and margin (15.05 dB).

Table with 3 columns: Parameter, Value, Unit. Implementation loss estimate for GMSK F1D: L_p (1 dB), L_g (0 dB), L_o (0 dB), bit rate (38,400 bps), and margin (14.43 dB).