

ON FREQUENCY AMPLIFIER (OFA)

TR-OFA-220D - Extend System Coverage

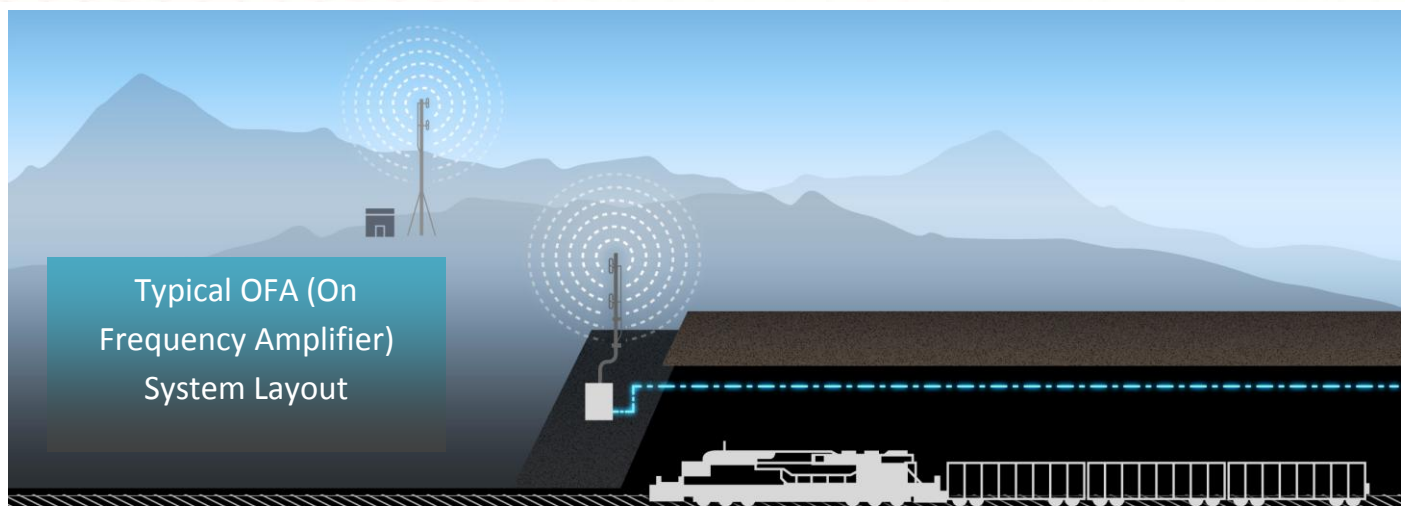
FEATURES and BENEFITS

- Positive Train Control Capable – 220 MHz
- Distributed Power Capable – 450 MHz
- Low component count – Easy installation
- Compatible with Tunnel Link™ and Tunnel Voice™ (FD4)
- Remote Diagnostics: IP compatible, TMS Diagnostic & Monitoring system for remote and local use
- Solar Powered Version available



Part Number TR-OFA-220D

Overview of Tunnel Radio On Frequency Amplifier Communication System





ON-FREQUENCY AMPLIFIER, TR-OFA-220D

SPECIFICATIONS

U.S. Patent Number 6041216 A

ELECTRIAL SPECIFICATIONS (typical), AMPLIFIER, TR-OFA-220D

Bandwidth, Rx, Tx	219-223 MHz
Gain, Rx, Tx	60 dB (with 16dB option available)
Noise figure, Rx, Tx	4 dB
Output power at 1 dB compression (P1dB)	+20 dBm
Remote diagnostics	Tunnel Monitoring System (TMS), uplink option
Error Vector Magnitude (EVM) with p/4 DQPSK modulation @ Pout = 20 dBm; source EVM = 0.5%, Rx	2%
Error Vector Magnitude (EVM) with p/4 DQPSK modulation @ Pout = +10 dBm; source EVM = 0.5%, Tx	2%
Impedance	50 Ω
DC power, Rx	+11 to +16 VDC 270 mA, w/o TMS 300 mA, w/ TMS
Sync signal	Programmable

TUNNEL MONITORING SYSTEM – TMS & TMS-NET

Monitoring: TMS & TMS-NET	Relative RF out, DC, TX & RX RSSI
Network Based Remote Viewing	With TR-TMS-NET and Ethernet connection available at Base Interface unit



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