

KBGX-FM2 KAILUA-KONA, HI
POWER CALCULATION

Transmitter Output: 225.70 Watts
NICOM DIPLEXER -.3 dB -15.065 Watts
Transmission Line: Andrew LDF4-50A, 1/2 Inch
Length Of Line: 158 Feet
Loss in dB/100 Ft. At 105.3 mHz: .700 dB
Line Efficiency At 105.3 mHz: 77.51%
Max. Average Power Rating of Line: 1.84 KW
Power Dissipated In Line: 47.37 Watts
Power At Input To Antenna: 163.27 Watts
Antenna Make/Model: SCALA 2XCA2-FMCP
Number of Bays: One
Max. Antenna Input Power Rating: .25 KW
Antenna Power Gain: .98

System E. R. P.: 160 Watts