

TPO Calculation

June 2021

K231CI

Radio Training Network Inc

CP File# 0000144358

Fac ID 149713

K231CI

Branson, MO

Calculation Of Transmitter Output Power

System ERP	0.25 Kwatts
Antenna Make	Nicom
Antenna Model	BKG-77
No of Bays	1
Antenna Gain	0.45
Antenna Input Power	0.556 Kwatts

Main Feed Line Type	Eupen EC4 1/2"
Line Length (Ft)	162
Line loss per 100 ft (DB)	0.650
Line loss (DB)	1.053

Inside Jumper	Eupen EC4-50-HF
Line Type	
Line Length (Ft)	4
Line loss per 100 ft (DB)	0.995
Line loss (DB)	0.040

Other System Losses

Polyphaser	(db)	0.1
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Total System Losses (db)	1.193
Feed System Effy	0.760

Transmitter Power Output	0.731 Kwatts
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