

FM and TV Propagation Curves

Databases & Searches

AM Query

Antenna Height Above Average
Terrain (HAAT) Calculator

Antenna Structure Registration
(ASRN) Records Within A Radius

Broadcast Station Mailing
Address Search

Call Sign Reservation and
Authorization System (CSRS)

CDBS Database Public Files

Children's Educational
Television Reporting - Form 398

Children's Programming Query

COLORIT HTML Color Generator

Degrees Minutes Seconds
to/from Decimal Degrees

Distance and Azimuths
Between Two Sets of
Coordinates

Electioneering Communications

This Javascript calculator uses the FM or TV television propagation curves to find the distance to a service or interfering contour, or the corresponding field strength at a given contour distance. [More after the form.](#)

Select Contour Type:

F(50,50) Service Contour -- FM and NTSC (analog) TV
F(50,10) Interfering Contour
F(50,90) Digital TV Service Contour

Select Channel Range:
(not TV Virtual Channel)

FM Radio or TV Transmit Channels 2-6
TV Transmit Channels 7-13
TV Transmit Channels 14-69

Find This:

Field Strength, given a Distance (in km)
Distance, Given a Field Strength (in dBu)
FM ERP, given Distance and Field Strength [F(50,50) Service Contour]

0.25

ERP (kW)

Distance (km)

190

HAAT (meters)

119

Field (dBu)

Find Result

Clear Form

Results:

Calculated Distance = 0.124 km

Free Space equation used to compute distance.