

27 T is a microwave transmitter placed at a fixed distance from a flat reflecting surface S.



A small microwave receiver is moved steadily from T towards S and receives signals of alternate maxima and minima of intensity.

The distance between successive maxima is 15 mm.

What is the frequency of the microwaves?

- A  $1.0 \times 10^7$  Hz
- B  $2.0 \times 10^7$  Hz
- C  $1.0 \times 10^{10}$  Hz
- D  $2.0 \times 10^{10}$  Hz