

X-BAND MISINFORMATION

Boy, oh boy! Where did Robert E. Williams (Letters, September 1979 **Radio Electronics**, page 24) get his store of misinformation?

I cannot quibble with the first three paragraphs, but the fourth paragraph is full of inaccuracies.

First of all, it is common knowledge (maybe not?) that X-band police radar is on $10.525 \text{ GHz} \pm 25 \text{ MHz}$ and the K band is up around 24 GHz somewhere, not the 9.32-9.5 and 10.5-10.7 GHz ranges as he suggests. (Actually, the only band lower than X is the old S band, which is not used much any more.)

Secondly, if there is an amateur transceiver available for the X band, please let me know where I can find it; I could really use a 10-watt X-band transceiver. I think, just maybe, that he is confused by the common two-meter radios that have a 1 and 10-watt position. Besides, can you really picture a 10-watt X-band signal source? Only TWT's or KPA's can kick out that much punch.

Thirdly, at my last checking with the FCC, pulse is not permitted on the X band, and never has been.

Fourth and last (and what a way to go): Really, when was the last time you measured the same thing coming back as was sent out? Especially at 10 GHz where propagation effects take a bad toll. Are we really supposed to believe that 100 mw comes back after going down the highway several hundred feet, bouncing off a very "scattering" reflector, and coming back another two hundred feet?

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