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SHURE

Tim Johnson
American Certification Body

Carson's Rule Occupied Bandwidth

Dear Mr. Johnson,

This letter is to attest the occupied bandwidth of the BLX1 and BLX2 transmitters operating in the H11 and J11 bands. The equations below justify the bandwidth assessment for emissions designators using Carson's Rule:

Carson's Rule: $BW_{MAX} = 2 * (\Delta f + f_m)$

Where: $\Delta f = 14{,}950 Hz$ (Audio frequency range as specified in user guide, 50-15,000Hz)

$f_m = 39{,}000 Hz$ (Maximum frequency deviation, as specified in tune-up procedure)

$BW_{MAX} = 107{,}900 Hz$

Regards,

Moonie Hart

Global Compliance Engineer, Shure Incorporated