

ITU-R BO.1213-1

GHz 12,75 – 11,7

(ITU-R 73/6)

(2005-1995)

.GHz 12,75 – 11,7

(WCR-97) 1997

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(WCR-2000) 2000

(WRC-03) 2003

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$$:D/\lambda \geq 11$$

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$$G_{co}(\varphi) = G_{max} - 2.5 \times 10^{-3} \left(\frac{D}{\lambda} \varphi \right)^2 \quad \text{for } 0 \leq \varphi < \varphi_m$$

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$$\varphi_m = \frac{\lambda}{D} \sqrt{\frac{G_{max} - G_1}{0.0025}}$$

$$G_{max} = 10 \log \left(\eta \left(\frac{\pi D}{\lambda} \right)^2 \right)$$

$$\varphi_r = 95 \frac{\lambda}{D} \quad G_1 = 29 - 25 \log \varphi_r,$$

$$G_{co}(\varphi) = G_1 \quad G_{co}(\varphi) = G_1$$

$$\text{for } \varphi_m \leq \varphi < \varphi_r$$

$$G_{co}(\varphi) = 29 - 25 \log \varphi$$

$$\text{for } \varphi_r \leq \varphi < \varphi_b \quad \text{where } \varphi_b = 10^{(34/25)}$$

$$G_{co}(\varphi) = -5 \text{ dBi}$$

$$\text{for } \varphi_b \leq \varphi < 70^\circ$$

$$G_{co}(\varphi) = 0 \text{ dBi}$$

$$\text{for } 70^\circ \leq \varphi < 180^\circ$$

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$$G_{cross}(\varphi) = G_{max} - 25$$

$$\text{for } 0 \leq \varphi < 0.25 \varphi_0$$

$$2 \frac{\lambda}{D} \sqrt{\frac{3}{0.0025}} = \varphi_0$$

$$(\quad) \text{ dB } 3 =$$

$$G_{cross}(\varphi) = G_{max} - 25 + 8 \left(\frac{\varphi - 0.25 \varphi_0}{0.19 \varphi_0} \right)$$

$$\text{for } 0.25 \varphi_0 \leq \varphi < 0.44 \varphi_0$$

$$G_{cross}(\varphi) = G_{max} - 17$$

$$\text{for } 0.44 \varphi_0 \leq \varphi < \varphi_0$$

$$G_{cross}(\varphi) = G_{max} - 17 + C \left| \frac{\varphi - \varphi_0}{\varphi_1 - \varphi_0} \right|$$

$$\text{for } \varphi_0 \leq \varphi < \varphi_1 \quad \text{where } \varphi_1 = \frac{\varphi_0}{2} \sqrt{10.1875}$$

$$G_{cross}(\varphi) = 21 - 25 \log \varphi$$

$$G_{cross}(\varphi) = -5 \text{ dBi}$$

$$G_{cross}(\varphi) = 0 \text{ dBi}$$

$$\text{and } C = 21 - 25 \log(\varphi_1) - (G_{max} - 17)^*$$

$$\text{for } \varphi_1 \leq \varphi < \varphi_2 \quad \text{where } \varphi_2 = 10^{(26/25)}$$

$$\text{for } \varphi_2 \leq \varphi < 70^\circ$$

$$\text{for } 70^\circ \leq \varphi < 180^\circ$$

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(WRC-03) 2003

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$$\text{dBi } 35,5 = G_{max}$$

$$0,65 = \eta$$

$$(\text{GHz } 11,7) \text{) } 23,4 = D/\lambda$$

$$^\circ 3,98 = \varphi_m$$

$$^\circ 4,06 = \varphi_r$$

$$\text{dB } 13,78 = G_1$$

$$^{(34/25)} 10 = \varphi_b$$

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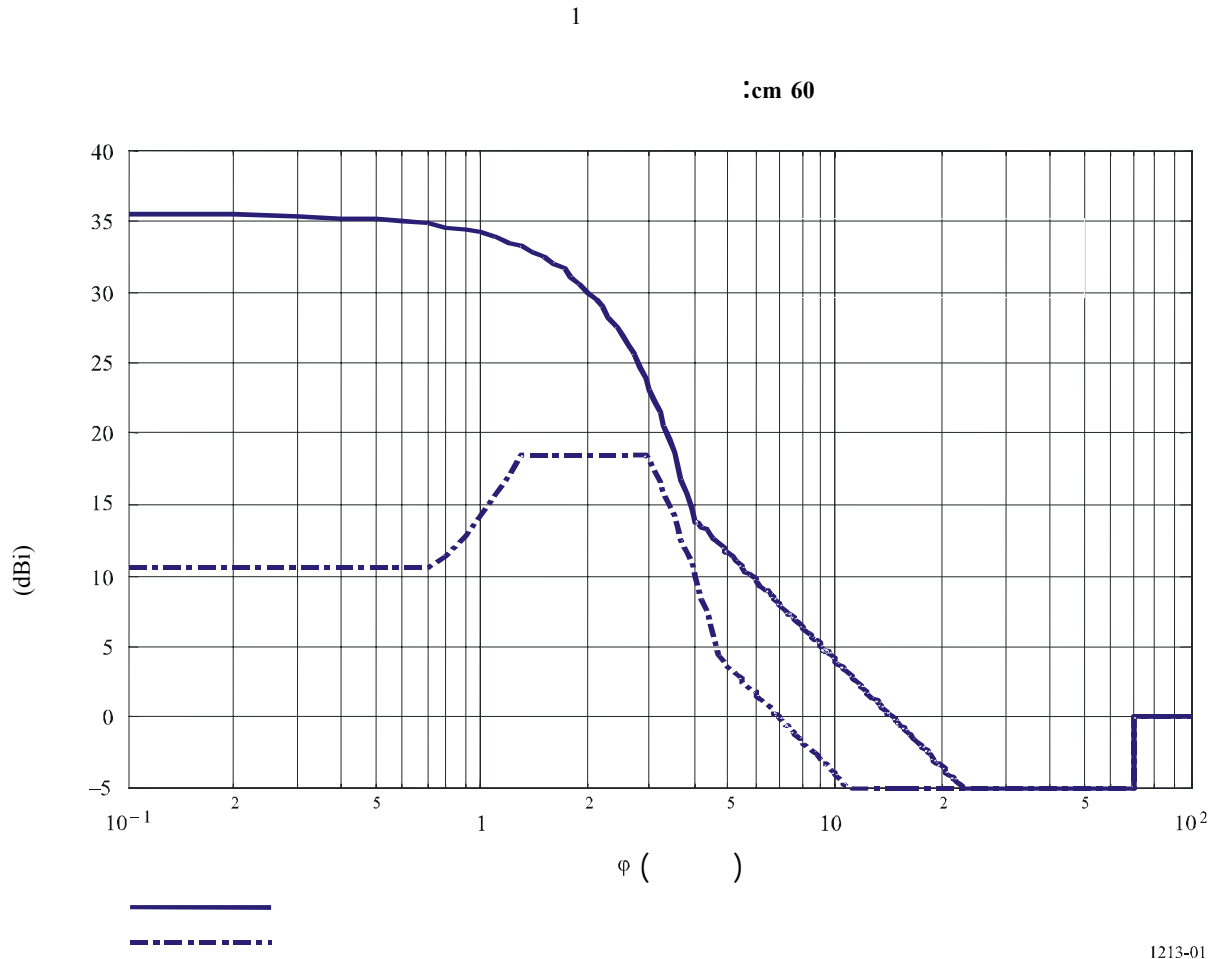
$$^\circ 2,96 = \varphi_0$$

$$^\circ 4,73 = \varphi_1$$

$$^\circ 10,96 = \varphi_2$$

$$\text{dB } 14,36- = C$$

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(WRC-03) 2003

cm 45

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$$\begin{aligned}
 \text{dBi } 33,3 &= G_{max} \\
 0,65 &= \eta \\
 (\text{GHz } 12,2) &= 18,3 \quad D/\lambda \\
 ^\circ 5,15 &= \phi_m \\
 ^\circ 5,19 &= \phi_r \\
 \text{dB } 11,12 &= G_1 \\
 (34/25)10 &= \phi_b \\
 &: \\
 ^\circ 3,79 &= \phi_0 \\
 &= ^\circ 6,04 = \phi_1 \\
 &= ^\circ 10,96 = \phi_2 \\
 \text{dB } 14,83- &= C
 \end{aligned}$$

