

$\mathbf{G}_{\text{pn,u}}$	$\mathbf{G}_{\text{pn,c}}$
① $\left( \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} - \left( \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right)^2 - 2 \sum_{k=1}^{\mathbf{M}-1} \left\{ (1 - \delta_k^2) \left( \frac{1}{k\pi} \sin \left( k\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right)^2 \right\} \right) \times \mathbf{M}$	$\frac{2}{\mathbf{M}} \sum_{m=1}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{\mathbf{M}}} \right)^2$
② $\left( 1 - \left( 1 - \frac{2\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right)^2 - 2 \sum_{k=1}^{\mathbf{M}-1} \left\{ (1 - \delta_k^2) \left( \frac{2}{k\pi} \sin \left( k\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right)^2 \right\} \right) \times \mathbf{M}$	$\frac{2}{\mathbf{M}} \sum_{m=1}^{\infty} \left\{ \frac{2}{m\pi} \sin \left( m\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{\mathbf{M}}} \right)^2$
③ $2 \left( \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} - \sum_{k=1}^{\mathbf{M}-1} \left\{ (1 - \delta_k^2) \left( \frac{1}{k\pi} \sin \left( k\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right)^2 \right\} \times (1 - \cos k\pi) \right) \times \mathbf{M}$	$\frac{1}{\mathbf{M}} \sum_{m=-\infty}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right\}^2 \times (1 - \cos m\pi) \left( \frac{\sin m\pi}{\sin \frac{m\pi}{\mathbf{M}}} \right)^2$
④ $2 \left( \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} - \sum_{k=1}^{\mathbf{M}-1} \left\{ (1 - \delta_k^2) \left( \frac{1}{k\pi} \sin \left( k\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \right)^2 \times \sqrt{2 - 2\cos \left( 2k\pi \frac{\mathbf{T}_{dx}}{\mathbf{M} \mathbf{T}_c} \right)} \right\} \right) \times \mathbf{M}$	$\frac{1}{\mathbf{M}} \sum_{m=-\infty}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta \mathbf{T}_x}{\mathbf{M} \mathbf{T}_c} \right) \times \sqrt{2 - 2\cos \left( 2m\pi \frac{\mathbf{T}_{dx}}{\mathbf{M} \mathbf{T}_c} \right)} \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{\mathbf{M}}} \right)^2$

\*Note: ①, ②, ③, and ④ represent each subcarrier type depicted in Fig. 10, respectively.