

$G_{ps,m}$	$G_{pn,u}$	$G_{pn,c}$
① $\left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$	$\frac{\Delta T_x}{MT_c} \times M = \frac{\Delta T_x}{T_c}$	$\frac{1}{M} \sum_{m=-\infty}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$
② $\left\{ \frac{2}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$	$M$	$M \left( 2 \frac{\Delta T_x}{MT_c} - 1 \right)^2 + \frac{2}{M} \sum_{m=1}^{\infty} \left\{ \frac{2}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$
③ $\left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \times (1 - \cos m\pi) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$	$2 \frac{\Delta T_x}{MT_c} \times M = 2 \frac{\Delta T_x}{T_c}$	$\frac{1}{M} \sum_{m=-\infty}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \times (1 - \cos m\pi) \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$
④ $\left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \times \sqrt{2 - 2\cos \left( 2m\pi \frac{T_{dx}}{MT_c} \right)} \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$	$2 \frac{\Delta T_x}{MT_c} \times M = 2 \frac{\Delta T_x}{T_c}$	$\frac{1}{M} \sum_{m=-\infty}^{\infty} \left\{ \frac{1}{m\pi} \sin \left( m\pi \frac{\Delta T_x}{MT_c} \right) \times \sqrt{2 - 2\cos \left( 2m\pi \frac{T_{dx}}{MT_c} \right)} \right\}^2 \left( \frac{\sin m\pi}{\sin \frac{m\pi}{M}} \right)^2$

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