

**Table 3.** Conclusion information from figure 7.

Structure	Thue-Morse	Double-period
Layers distribution of unit cell	<i>HGLGLGHG</i>	<i>HGLGHGHG</i>
Layers number	12, 16	12, 16
PBG1 width (THz) (for $N = 3$ )	0.81(20.9 THz – 21.71 THz)	0.53(20.751 THz – 21.28 THz)
PBG1 width (THz) (for $N = 4$ )	0.87(20.84 THz – 21.71 THz)	0.87(20.67 THz – 21.54 THz)
PBG2 width (THz) (for $N = 3$ )	2.4(24.83 THz – 27.23 THz)	2.05(25.77 THz – 27.82 THz)
PBG2 width (THz) (for $N = 4$ )	2.25(24.83 THz – 27.08 THz)	1.88(25.67 THz – 27.55 THz)
Number of transmission peaks (for $N = 3$ )	3	3
Number of transmission peaks (for $N = 4$ )	4	4
Position of passing peaks (for $N = 3$ )	$F_1 = 20.9 THz, T_1 = 0.27$ $F_2 = 27.23 THz, T_2 = 0.89$ $F_3 = 27.9 THz, T_3 = 0.66$	$F_1 = 20.75 THz, T_1 = 0.39$ $F_2 = 27.82 THz, T_2 = 0.96$ $F_3 = 28.8 THz, T_3 = 0.87$
Position of passing peaks (for $N = 4$ )	$F_1 = 20.84 THz, T_1 = 0.82$ $F_2 = 27.08 THz, T_2 = 0.73$ $F_3 = 27.59 THz, T_3 = 0.89$ $F_4 = 28.03 THz, T_4 = 0.43$	$F_1 = 20.67 THz, T_1 = 0.91$ $F_2 = 27.55 THz, T_2 = 0.95$ $F_3 = 28.34 THz, T_3 = 0.92$ $F_4 = 28.98 THz, T_4 = 0.69$
Application	Polychromatic THz filters	Polychromatic THz filters

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F is the position of frequency and T is transmission amount