Type	1	1a	1b
Frequency range (THz)	0.3-3 – optimal frequency range (3 dB flatness) 0.1-6 – full frequency range		
Upper level of dynamic range (μW at 3dB compression point)	0.1		
Noise equivalent power (NEP), W/Hz	5-7 · 10	3-5 · 10	5-8 · 10
Responsivity of the bolometer, (V/W) *intrinsic characteristic of the HEB*	~10,000	~ 3,000	~ 2,000
Response time (ns)	~1	~0.1	~0.05
Sensitive material	MoRe	NbN	
Bandwidth of HEMT amplifier (MHz)	0.01-200	1-3500	1-8000
Maximum power handling capacity	50 μW		
Lens configuration	Hybrid antenna (Ø12 mm silicon hyperhemispherical lens and logarithmic periodic spiral antenna)		
Input beam Max diameter (mm)	10		
Beam pattern	F/3 to F/∞ (collimated)		
Type	2	2a	
Frequency range (THz)	1-12 (40)		
Upper level of dynamic range (μW at 3dB compression point)	50		
Noise equivalent power (NEP), W/Hz	1-2 · 10	6-8 · 10	
Responsivity of the bolometer, (V/W) *intrinsic characteristic of the HEB*	~300	~ 100	
Response time (ns)	~1	~0.1	
Sensitive material	MoRe	NbN	
Bandwidth of HEMT amplifier (MHz)	0.01-200	1-3500	
Maximum power handling capacity	10 mW		
Lens configuration	Silicon lens (Ø12mm or Ø4mm silicon hyperhemispherical)		
Input beam Max diameter (mm)	10 (3)		
Beam pattern	F/3 to F/∞ (collimated)		
Type	3	3a	
Frequency range (THz)	25-100		
Upper level of dynamic range (μW at 3dB compression point)	2		
Noise equivalent power (NEP), W/Hz	1-2 · 10	4-5 · 10	
Responsivity of the bolometer, (V/W) *intrinsic characteristic of the HEB*	~2,000	~ 500	
Response time (ns)	~1	~0.1	
Sensitive material	MoRe	NbN	
Bandwidth of HEMT amplifier (MHz)	0.01-200	1-3500	
Maximum power handling capacity	1 mW		
Lens configuration	Germanium or zinc selenide lens (Ø12 mm germanium hyperhemispherical)		
Input beam Max diameter (mm)	10		
Beam pattern	F/3 to F/∞ (collimated)		

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