

Pulse Electronics' Solution Overview for Drone Applications

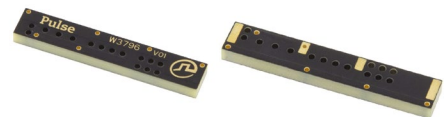
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Pulse Wireless Solution Overview for Drones

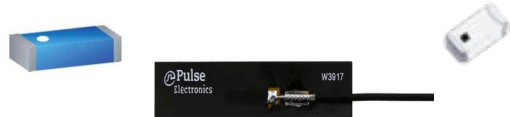
■ Communication system

- Antenna: Composite PCB/Chip type
- Series: LTE4G/5G NR
- Specification: high performance with small factor
- Mounting type: SMT



■ Video transmission system

- Antenna: Chip/ FPC+ cable type
- RF Components: LTCC Diplexer
- Series : WIFI2.4G+5GHz/LTE4G
- Size : 3216/5030/2012/42*8mm



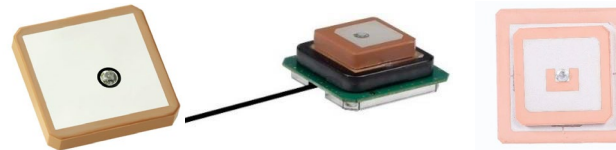
■ Remote control device

- Antenna: Chip type
- RF Components : LTCC Diplexer
- Series: WIFI2.4G+5GHz/BT/GPS
- Size : 3216/5030/2012



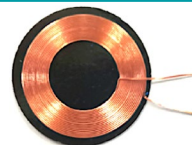
■ Navigation/Positioning System

- Antenna: Patch type
- RF Components : LTCC coupler
- Series : GNSS, BD, GNSS+L2, GNSS+L5
- Size : 18184 / 25252/ Stacked Patch 1825, 2535
- Special requirement: Axial Ratio: AR <5 (2835, 2+2 pins)



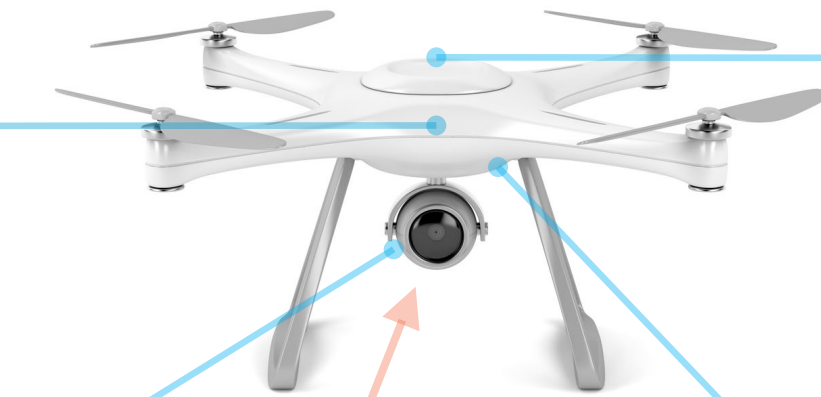
■ Wireless Charge Coil

- Frequency [KHz]: 100
- Inductance (uH) : 11.5+/-10%
- Charge power: 60w maximum



■ Video transmission device

- Antenna: external type
- Series : WIFI2.4G+5GHz/LTE4G



Pulse Wireless Solution Overview for Drones

Application	Series	Type	Description	Pulse Parts Number	Remark
Communciation system	Antenna	Composite PCB	LTE4G/40*7*3mm	W3796	Available
		Composite PCB	5G NR/40*7*3mm	W3415	
		Ceramic chip	LTE4G/40*5*6mm	ANT4005B000RWHEXS	
Video transmission system	Antenna	Ceramic chip	WIFI2.4G+5G/3216	W3078	Available
		Ceramic chip	WIFI2.4G/3216	ANT3216LL11R2455A	
		Ceramic chip	WIFI2.4G/5320	ANT5320LL24R2400A	
		FPC+ cable	WIFI2.4G+5G/ 42.6*8.6*0.15mm	W3917B0100	
		FPC+ cable	WIFI2.4G+5G/ 35*8*0.15mm	W3918B0100	
	RF Component	Diplexer	2.4/5GHz Diplexer	DPX2012LL75R2455A	
Navigation/position system	Antenna	Passive Patch	GNSS/25*25*4mm	W3223A	Available
		Passive Patch	GNSS/18*18*4mm	ANT1818B00FTGNSSS	
		Active Patch	GNSS/30*30*8mm	GPSGB2530	
		Active Patch	L1+L5/25*25*12mm	ANT1825JB01BGNL5A	
	RF Component	Coupler	GNSS+L2&L5 CPL /2012	CPL2012LWLARGN25A	
Remote control device	Antenna	Ceramic chip	WIFI2.4/BT/3216	ANT3216LL00R2400A	Available
		Ceramic chip	WIFI2.4G+5G/3216	ANT3216LL11R2455A	
		Ceramic Patch	GNSS/25*25*4mm	W3224	
		Ceramic Patch	GNSS/25*25*4mm	ANT2525B00FTGNSSS	
	RF Component	Diplexer	2.4/5GHz Diplexer	DPX2012LL75R2455A	
Video transmission device	Antenna	External	5G NR/229*30.5mm	W5150	Available
		External	LTE4G/197mm	W5134	
		External	WIFI2.4+5G/108mm	W5124	
All parts can be customized per the customer's requirement/specification.					



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