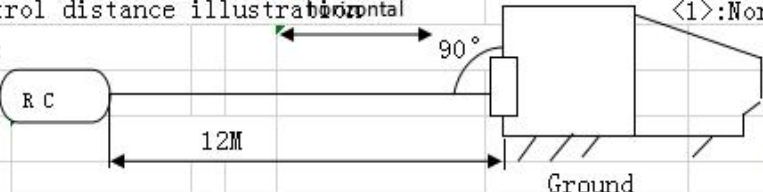
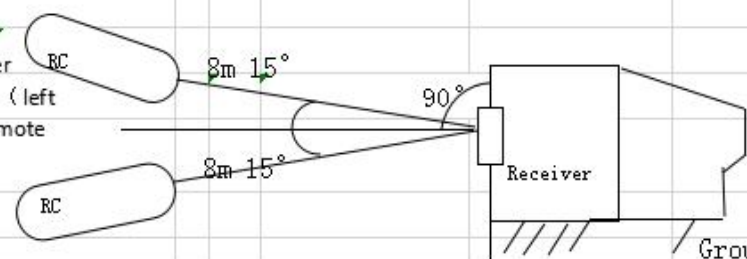
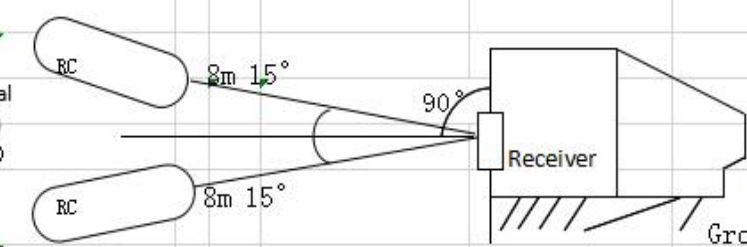
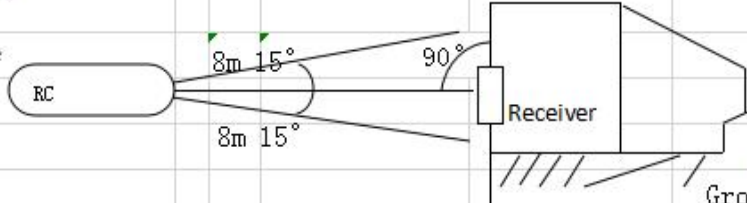
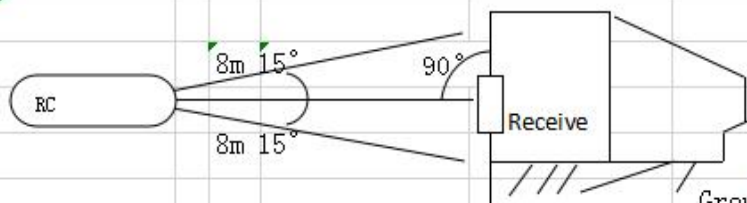


客户 Client	欣亿达	SPECIFICATION	机型类别 Model No.	TY-16J-WT01
物料名称 Product name	遥控器 Remote control	确 认 书 Confirmation Doc	客户料号 Customer Model No.	

2. Electronic character			
Item	Parameter range	Remark	
2-1. Static current	$\leq 3\mu A$	DC=3.2V	
2-2 Work current	$< 20mA$	DC=3.2V	
2-3. Oscillation frequency	$455KHz \pm 2.2KHz$	DC=3.2V	
2-4. Lowest work voltage	$\geq 2.2V$		
2-5. Operation voltage range	DC 2.2V~3.3V		
2-6. Operation temperature range	$-10^{\circ}C \sim +50^{\circ}C$		
2-7. Storage temperature range	$-25^{\circ}C \sim +65^{\circ}C$		
2-8: Remote control distance illustration			
IllustrationA:	horizontal	$\langle 1 \rangle$: Normal temperature: $25^{\circ}C$	
Locate the receiver horizontal or vertical the axis line of remote control		$\langle 2 \rangle$: DC=3.2V	
IllustrationB:	work distance receiver when horizontal angle (left and right) (Fix remote control)	$\langle 3 \rangle$: Receiver equipment is code testing machine	
		$\langle 1 \rangle$: Normal temperature: $25^{\circ}C$	
IllustrationC:	work distance of Receiver when Vertical angle (up and down) (Fix remote control)	Normal humidity: 65%RH	
		$\langle 2 \rangle$: DC=3.2V	
IllustrationD:	work distance of remote control when horizontal angle (left and right) (Fix remote control)	$\langle 3 \rangle$: Receiver equipment is code testing machine	
		$\langle 1 \rangle$: Normal temperature: $25^{\circ}C$	
IllustrationE:	work distance of remote control when Vertical angle (UP and Down) (Fix remote control)	Normal humidity: 65%RH	
		$\langle 2 \rangle$: DC=3.2V	
		$\langle 3 \rangle$: Receiver equipment is code testing machine	

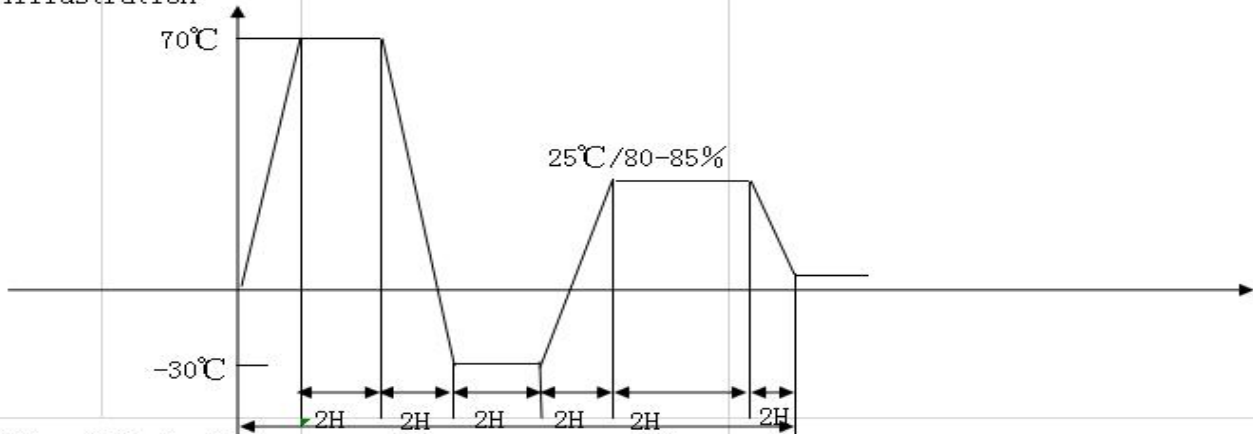
3. Structure character			
	Item	Spec	Testing condition
3-1	Force	180±20g	add force to the middle of button as vertical direction
3-2	distance	0.2±0.05mm	add force to the middle of button as vertical direction
3-3	Button strength	no structure and electrical damage.	add 3kg force and stay 3 mins to the middle of button as vertical direction
3-4	Vibration resistance	no structure and electrical damage.	install battery then do below testing
			1.Oscillation frequency:10-55-10Hz/one cycle by 3mins3
			2.vibration amplitude:1.5mm
			3.Direction:among the Vertical direction of X,Y,Z
4.Time:30min for each direction, total 1.5 hours			
3-5	Fall down testing	Fall down from 50cm height, No battery lid damage and release occur, function is normal. Fal down from 80cm height, allow battery lid release, but function is normal	Install battery to remote control, fall down as any angle from 80cm high without package.
			wooden ground over 3cm weight
3-6	Impact resistance	no structure and electrical damage.	install battery then do below testing
			1.acceleration:50G
			2.Testing direction:Up,downX,Y,Z six direction
3.Testing times:two times for each direction, total 12 times.			
4. Appearance characteristic			
	Item	Spec	Testing method
4-1	Surface strength	The surface (including the character and graphic symbol) should have the hardness of the pencil core above 2H	With the hardness of 2H (cylindrical pencil core), press the cartridge to the surface of remote control as 45 degree angle,10N force
			move the pencil to 10mm separately from the three surface of remote control
4-2	Hot water resistance	no any change of remote control color, character, symbol are clear	drop 60℃ hot water to the different parts of the remote control surface include characters, graphics symbol, the drop area is 0.1ml,1square cm, then wipe out by soft cloth.
4-3	Printing adhesion	the character , symbol are clear after testing by adhesiver tape	Use transparent adhesiver tape with 2-3.5N/cm, press transparent adhesiver tape on the characters /symbol of remote control,the area of symbol is at least 1 square centimeter,then pull off the adhesive tapy quickly by three times.

4-4	Solvent resistance	Remote control surface can support 20% salt water, ethanol, edible oil solvent, no change of the surface hardness and appearance, the characters and signs should be clear	a. use cotton or soft cloth in 20% salt water, wipe the surface to remote control (including the key printing position) 30 times, check the surface hardness according to the hardness standard
			b. Test above step by ethanol
			c. Drop edible oil to the different three parts of remote control surface, each drop area is 0.1ml, 1 square centimeters, wipe out by dry cloths after one hours

5. Reliable testing

	Item	Spec	Testing method
5-1	Heat resistance	1. LEAKAGE current : below 3μA	keep place the remote control in the temperature of $70 \pm 1^\circ\text{C}$ two hours
		2. transmit distance: above 10meter	then recover room temperature after two hours again
		3. Action force: initial values to $\pm 40\text{g}$	
		4. no change for other electronic and mechanical properties	
5-2	Cold resistance	Same above	keep place the remote control in the temperature of $-30 \pm 1^\circ\text{C}$ two hours, then recover room temperature after two hours again
5-3	humidity resistance	Same above	keep place the remote control in the temperature of $-25 \pm 1^\circ\text{C}$, humidity: 80~85% two hours, then recover room temperature after two hours again
5-4	Temperature cycling test	Same above	The remote controller should be able to bear the temperature cycling test as shown in the following diagram.

5-4 Illustration



6. Button life testing

	Item	Spec	Testing condition
6-1	unload life	Force: initial values to $\pm 40\text{g}$, no change for electronic and mechanical properties	don't install battery into remote control, test all keys according below method
			1. Force: 200g
			2. Speed: 150-200times/min
6-2	load life	1. static current: below 3μA,	press remote control contiguously and remote control can work as normal
		2. work distance : over 10meter	1. Force: 200g
		3. Force: initial values to $\pm 40\text{g}$	2. Speed: 20-30times/min
		no change for electronic and mechanical properties	3. times: 200,000times