

5~15W Qi Wireless Charger (Meet WPC Qi v1.3)



■ Features

- Compliant with the WPC v1.33 protocol, BPP, PPDE certification
- Support 5~15W applications:
 - Fast charge input for 5~15W applications
 - 5V input for 5W output application
 - 9V input for 5W, 7.5W, 10W output application
- USB-type C input port, support PD power adapter 5V and 9V input
- Support FOD (Foreign Object Detection) function
- Low quiescent dissipation and high efficiency
- Support DPDM Fast Charge input request
- Support Dynamic Power Modulation (DPM)

■ Applications

- Smart phones
- Portable electronics devices
- Wearable devices
- Waterproof electronics devices

Specification

Model		Q15		
Output	Wireless charging Protocol supported	Qi v1.33 protocol, BPP & PPDE certification, support A11, A11a, MP-A2 coil, support 5W, Apple 7.5W, Samsung 10W, 15W charging		
	Output power	Fast charge input for 5~15W applications 5V input for 5W output application 9V input for 5W, 7.5W, 10W output application		
	Magnetic function	Yes		
	Communication protocol	voltage and current two-way ASK demodulation module		
	Charging indication	Blue breath lighting charging, blue solid lighting full charged		
Input	Rating input	USB-type C PD power adapter		
	Input voltage range	5V ~ 12V		
	Input power minmum	Support Dynamic Power Modulation (DPM) for insufficient USB power source (5V0.6A)		
	Rating input current	2.0A		
	Maximum Efficiency	88%		
Protection	FOD protection	Yes		
	Input/Output over voltage	Yes		
	Input/Output over current	Yes		
Environment	Operating temperature	-10 - +40°C		
	Operating humidity	0 - 90% RH		
	Storage temp & humidity	-40 - +70°C, 0 - 95% RH		
	Cooling	Natural convection		
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes		
EMC & LVD	Max. temperature rise	< 30°C on casing		
	Safety approval	CE FCC		
	EMC Emission	Parameter	Standard	Test Level I Note
		Conducted	EN55032 FCC PART15	Class B
		Radiated	EN55032 FCC PART15	Class B
		Harmonic Current	EN61000-3-2	
		Voltage Flicker	EN61000-3-3	
EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11			
Others	MTBF	30000H		
	Size	Dia. 55mm, Thickness 5.5mm		
	Weight	50g		
Notice	N.A			

■ Mechanical drawing

