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## YX-379 Wireless Charge



## 1. Revise history

version	substance	section	while
V1.0	First written	/	2023.07.15

## 1.1 Application introduction

This module is a fast wireless charging single coil solution for fast wireless charging of Samsung S6edge +, S7, S7 edge, S8, S9, S10, S22, galaxy Z Flip4, compatible with Apple 8, 8 Pulls, X, XS, X Smax Apple 14, Apple Pro, can support Ti, IDT, Qi standard receiver.

### 1.2 Product Description:

1. Compliance with Qi 1.2.4 A11 specification
2. adapter requirements: 12V adapter, module standby 12V
3. to support the dynamic FOD detection
4. Support for dynamic power adjustment (DPM)
5. Support for overpressure protection (OVP) 10.5V
6. Support overcurrent protection (OCP) output current limit of 1.8A
7. Support for overtemperature protection (OTP)
8. service frequency: 115KHz~205KHz
9. Working induction distance: 2-6mm

## 2. Electrical specifications

### 2.1 absolute rating

parameter	symbol	rating	unit
The junction temperature range	TJ	-40 ~ +125	°C
Storage temperature	Tstg	-60 ~ +125	°C
Storage humidity	Tstr	< 95%	RH
input voltage (HBM)	VIN	-0.5至+16	V
	ESD	4	KV

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## 2.2 Rated parameters

Test conditions: ambient temperature: 25 C.

	test	rating	least value	Crest value	unit
power consumption	VIN=5V	230	200	310	MW
service frequency	Load distance	/	110	205	KHz
transmission efficiency	EESON	75	60	80	%
voltage	5W	12	11.8	12.2	V
voltage	7.5W	12	11.8	12.2	V
voltage	10W	12	11.8	12.2	V
voltage	15W	12	11.8	12.2	V
export	5W	1	0.8	1.1	A
export	7.5W	1	0.8	1.2	A
export	10W	1.1	1	1.3	A
export	15W	1.66	1.6	1.7	A

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.