1. Part No. Expression:

<u>WAQ7FNT101-RD-10</u>

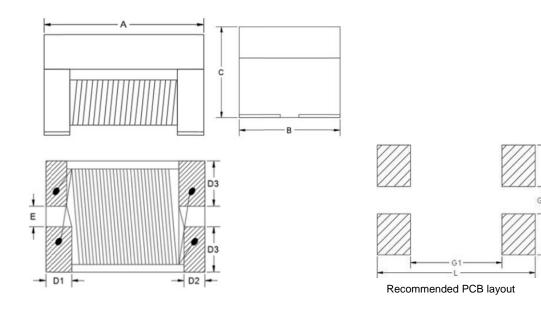
(b) (c) (d) (e)(f) (g) (a)

- (a) Series Code
- (b) Dimension Code
- (c) Material Code

- (e) Packaging Code (f) Current Rating Code
- (g) Standard Code

(d) Inductance Code

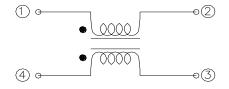
2. Configuration & Dimensions:



Unit: mm

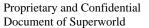
А	В	С	D1	D2	D3	Е	L	Н	G1	G2
4.6±0.2	3.2±0.2	2.9±0.15	0.75±0.2	0.6±0.2	1.3±0.2	0.6±0.2	5.0 Ref.	3.2 Ref.	3.5 Ref.	0.9 Ref.

3. Schematic:



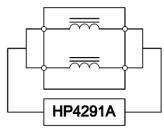
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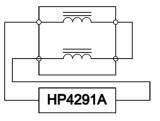


4. Measuring Circuits:

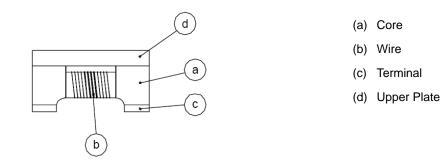
Common mode



Differential mode



5. Material List:



6. General Specification:

- (a) Reliability test for this part meets AEC-Q200 standard.
- (b) Operating Temp. : -40°C to +125°C (Including self temperature rise).
- (c) Storage Temp. : -40°C to +125°C (on board).
- (d) Temperature Rise: 20°C Max. At Rated Current <1A.
- (e) Storage Condition (Component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity: 60% RH

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7. Electrical Characteristics:

Part Number	Inductanc (uH)Typ.	. (!	CR Ω)	Rated Current (mA)		Insertion loss Max.			eturn Loss OUT=100	. ,	
	[0.1V/100K	Hz] M	Max.	. ,	10-1	00MHz	100-400MHz	30-80MHz	200MH	z 400MHz	
	100	4	.2	100	-1.	0 dB	-1.7 dB	-22 dB	-17 dE	-15 dB	
WAQ7FNT101-RD-10	Common To Common- Mode Rejection (Min.)					Common To Differential- Mode Rejection (Min.)				Turns Ratio and	
	30-80MHz	200MHz	400M	Hz 1000	MHz	10-30N	1H 100MHz	200MHz	1000MHz	Polarity	
	-45 dB	-35 dB	-32 d	IB -25	dB	-60 dl	3 -47 dB	-40 dB	-38 dB	1.00±2%,PER SCHEMATIC	

Part Number	Inductan (uH)Tyj		CR Rated 2) (mA)			Insertion loss Max.		Return Loss (Z OUT=100			. ,		
	[0.1V/100	KHz] M	/lax.	Max.	100) KHz	1-60	MHz	1-10M	lHz	30MHz	<u>-</u>	60MHz
	160 5.0		.0	100	-0.5 dB		-1.() dB	-26 dB		-21.1 dB		-18 dB
WAQ7FNT161-RA-10	Common To Common- Mode Rejection (Min.)					Common To Differential- Mode Rejection (Min.)					Turns Ratio and		
	1 MHz 1	1 MHz 10-100MHz 400MHz 1000MHz 1-10MHz 100MHz		MHz	1000MHz		Polarity						
	-23 dB	-42 dB	-25 dB	-15	dB -70		dB	-50	-50 dB		-24 dB		0±2%,PER CHEMATIC

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8. Soldering:

Mildly activated rosin fluxes are preferred. Our terminations are suitable for all re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-1 Solder Re-flow

Recommended temperature profiles for re-flow soldering in Figure 1.

8-2 Soldering Iron (Figure 2)

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended. Note :

- a) Preheat circuit and products to 150°C.
- b) 350°C tip temperature (Max.)
- c) Never contact the ceramic with the iron tip
- d) 1.0mm tip diameter (Max.)
- e) Use a 20 watt soldering iron with tip diameter of 1.0mm
- f) Limit soldering time to 4~5 sec.

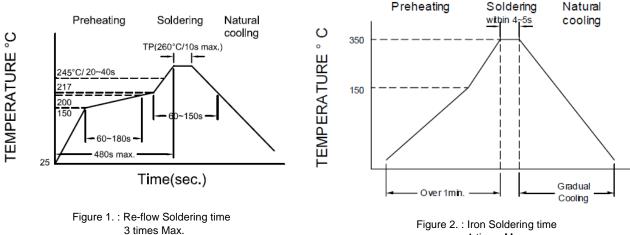


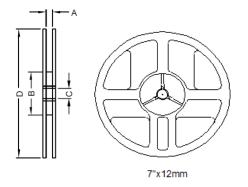
Figure 2. : Iron Soldering time 1 times Max.

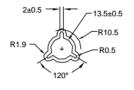
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9. Packaging Information:

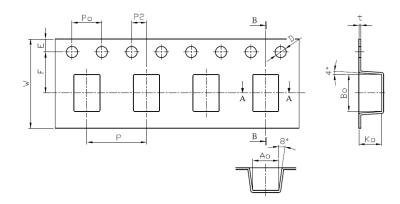
9-1 Reel Dimension





Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x12mm	13.5±0.5	60.0±2.0	13.5±0.5	178±2.0

9-2 Tape Dimension



Size	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)	D(mm)	E(mm)	F(mm)	W(mm)	t(mm)
WAQ7FNT	8.0±0.1	4.0±0.1	2.0±0.05	4.9±0.1	3.6±0.1	3.0±0.1	1.05 +0.1/-0	1.75±0.1	5.5±0.05	12.0±0.1	0.26±0.05

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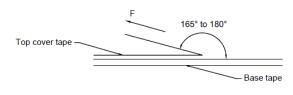
9-3 Packaging Quantity

Chip Size	WAQ7FNT		
Chip/Reel	500		
Inner Box	2,000		
Middle Box	10,000		
Carton	20,000		

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9-4 Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- a) Recommended products should be used within 12 months from the time of delivery.
- b) The packaging material should be kept where no chlorine or sulfur exists in the air.
- 2. Transportation:
 - a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - b) Vacuum pick up is strongly recommended for individual components.
 - c) Bulk handling should ensure that abrasion and mechanical shock are minimized.

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