

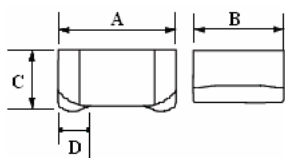
## 1. Features

1. Choke coil for DC/DC converter.
2. It corresponds to high current.
3. 100% Lead(Pb)-Free and RoHS compliant.



Certificate  
of  
Green Partner

## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
160808	1.6±0.2	0.8±0.2	0.8±0.2	0.45±0.15



## 3. Part Numbering

WPI
L
160808
F
-
2R2
M

A: Series  
 B: Category Code  
 C: Dimension  
 D: Material  
 E: Inductance  
 F: Inductance Tolerance

A x B x C  
 Ferrite  
 2R2=2.2uH  
 K=±10%, M=±20%

## 4. Specification

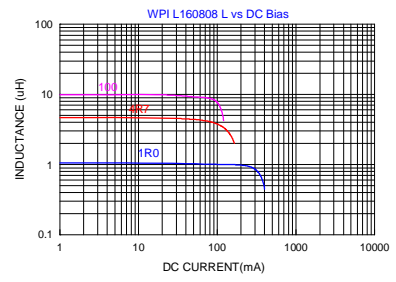
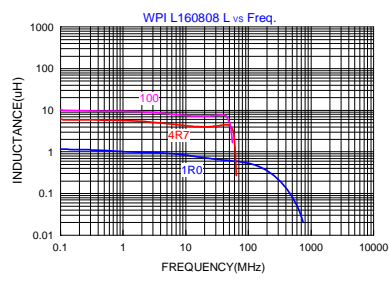
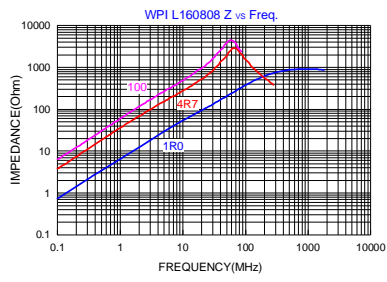
TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI L160808F-1R0M	1.0	M	7.96	0.09	290	770	100
WPI L160808F-2R2M	2.2	M	7.96	0.17	190	560	80
WPI L160808F-3R3M	3.3	M	7.96	0.22	170	500	60
WPI L160808F-4R7M	4.7	M	7.96	0.24	145	470	45
WPI L160808F-100□	10	K, M	2.52	0.36	115	380	32
WPI L160808F-220□	22	K, M	2.52	1.00	70	230	16
WPI L160808F-470□	47	K, M	2.52	2.50	50	140	11

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics



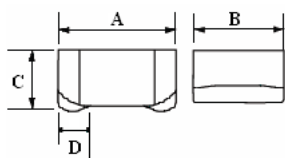
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3. 100% Lead(Pb)-Free and RoHS compliant.



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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
160807	1.6±0.2	0.8±0.2	0.7 max.	0.45±0.15

## 3. Part Numbering

WPI
P
160807
F
-
2R2
M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension A x B x C  
 D: Material Ferrite  
 E: Inductance 2R2=2.2uH  
 F: Inductance Tolerance M=±20%

## 4. Specification

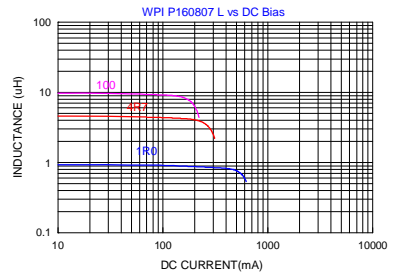
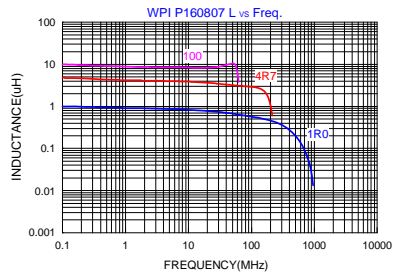
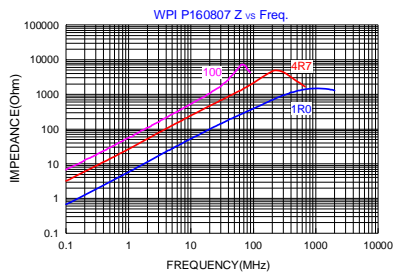
TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P160807F-1R0M	1.0	M	1	0.23	510	650	700
WPI P160807F-1R5M	1.5	M	1	0.28	440	590	600
WPI P160807F-2R2M	2.2	M	1	0.40	360	500	400
WPI P160807F-3R3M	3.3	M	1	0.65	290	390	300
WPI P160807F-4R7M	4.7	M	1	1.00	240	310	150
WPI P160807F-6R8M	6.8	M	1	1.64	200	250	100
WPI P160807F-100M	10	M	1	2.00	170	220	45

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics



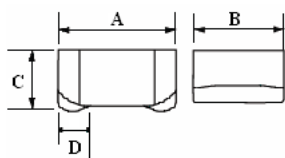
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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
160808	1.6±0.2	0.8±0.2	0.8±0.2	0.45±0.15



## 3. Part Numbering

WPI P 160808 F - 2R2 M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension  
 D: Material  
 E: Inductance  
 F: Inductance Tolerance

A x B x C  
 Ferrite  
 2R2=2.2uH  
 M=±20%

## 4.Specification

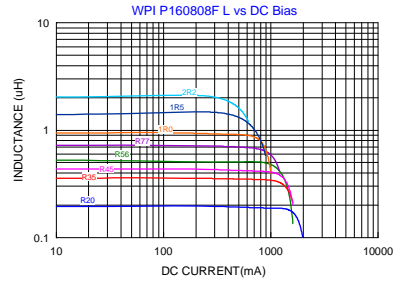
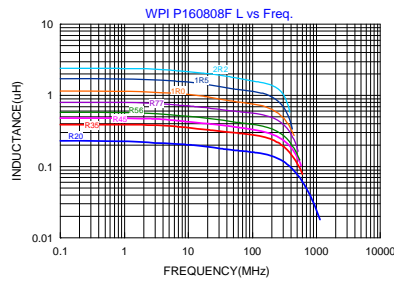
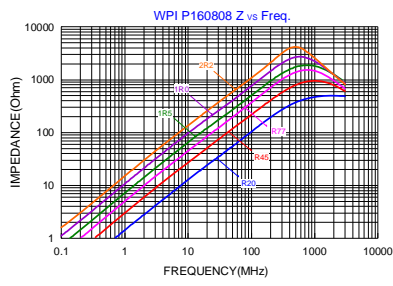
TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P160808F-R20M	0.20	M	7.96	0.06	1750	980	400
WPI P160808F-R35M	0.35	M	7.96	0.08	1400	810	300
WPI P160808F-R45M	0.45	M	7.96	0.09	1250	800	200
WPI P160808F-R56M	0.56	M	7.96	0.095	1150	760	170
WPI P160808F-R77M	0.77	M	7.96	0.11	1000	660	150
WPI P160808F-1R0M	1.0	M	7.96	0.18	850	520	140
WPI P160808F-1R5M	1.5	M	7.96	0.30	700	410	120
WPI P160808F-2R2M	2.2	M	7.96	0.55	550	280	100

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics



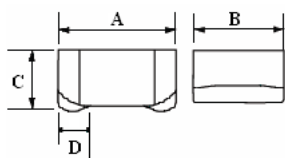
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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
201210	2.0±0.2	1.25±0.2	1.0 max	0.50±0.2



## 3. Part Numbering

WPI P 201210 F - 2R2 M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension  
 D: Material  
 E: Inductance  
 F: Inductance Tolerance

A x B x C  
 Ferrite  
 2R2=2.2uH  
 M=±20%

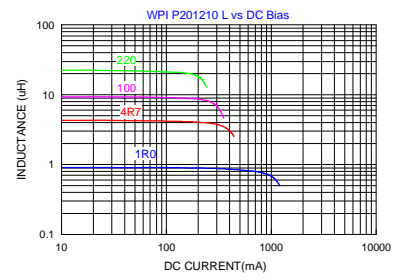
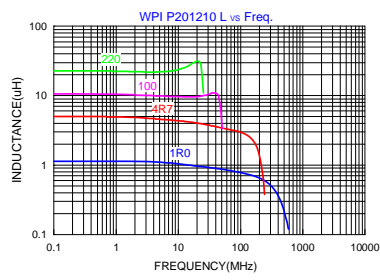
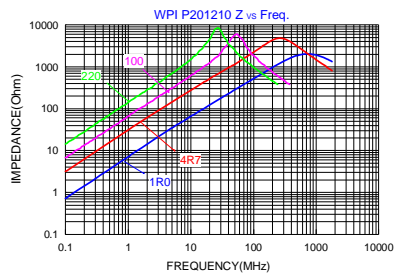
## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P201210F-1R0M	1.0	M	7.96	0.135	850	850	300
WPI P201210F-1R5M	1.5	M	7.96	0.18	700	750	250
WPI P201210F-2R2M	2.2	M	7.96	0.30	600	550	200
WPI P201210F-3R3M	3.3	M	7.96	0.50	490	440	190
WPI P201210F-4R7M	4.7	M	7.96	0.55	340	400	150
WPI P201210F-6R8M	6.8	M	7.96	0.75	290	350	60
WPI P201210F-100M	10	M	2.52	0.85	270	330	30
WPI P201210F-150M	15	M	2.52	1.00	220	300	15
WPI P201210F-220M	22	M	2.52	1.30	190	270	13

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C  
 I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics





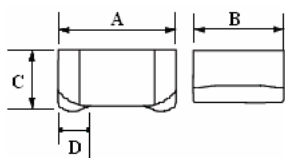
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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
201214	2.0±0.2	1.25±0.2	1.4 max.	0.50±0.2

## 3. Part Numbering

WPI P 201214 F - 2R2 M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension A x B x C  
 D: Material Ferrite  
 E: Inductance 2R2=2.2uH  
 F: Inductance Tolerance M=±20%

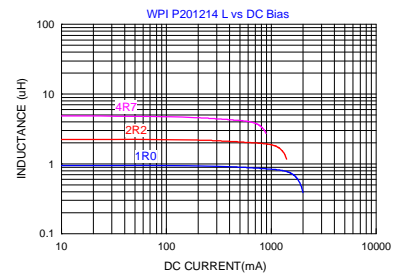
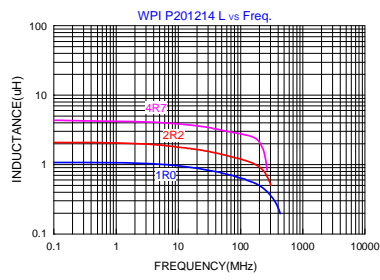
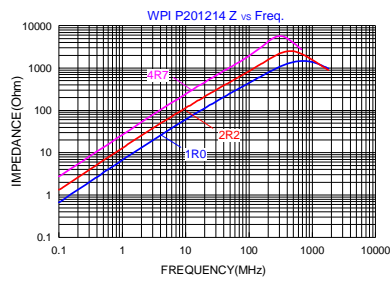
## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P201214F-1R0M	1.0	M	1	0.06	1500	1400	490
WPI P201214F-1R5M	1.5	M	1	0.09	1200	1100	390
WPI P201214F-2R2M	2.2	M	1	0.11	1100	1000	350
WPI P201214F-3R3M	3.3	M	1	0.17	800	870	300
WPI P201214F-4R7M	4.7	M	1	0.265	700	600	250

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C  
 I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics



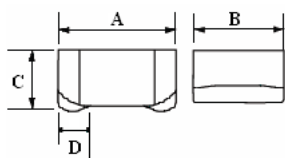
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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252010	2.5±0.2	2.0 max.	1.0 max.	0.50±0.2



## 3. Part Numbering

WPI P 252010 F - 2R2 M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension  
 D: Material  
 E: Inductance  
 F: Inductance Tolerance

A x B x C  
 Ferrite  
 2R2=2.2uH  
 M=±20%

## 4. Specification

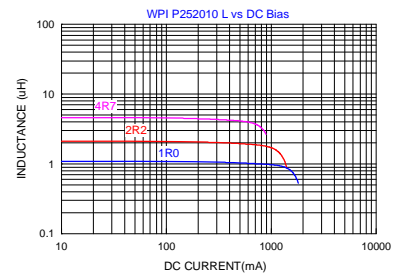
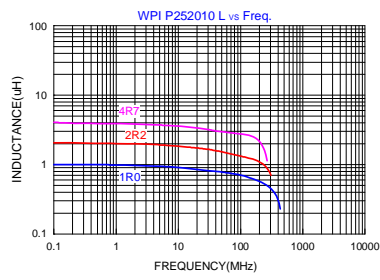
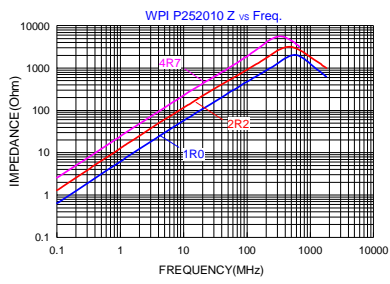
TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±30%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P252010F-1R0M	1.0	M	1	0.09	1200	1200	130
WPI P252010F-1R5M	1.5	M	1	0.11	1100	1000	100
WPI P252010F-2R2M	2.2	M	1	0.13	850	950	80
WPI P252010F-3R3M	3.3	M	1	0.22	700	700	70
WPI P252010F-4R7M	4.7	M	1	0.33	650	650	60

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics



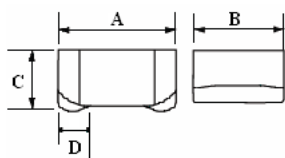
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## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
322517	3.2±0.2	2.5±0.2	1.7 max.	0.75±0.2



## 3. Part Numbering

WPI P 322517 F - 2R2 M

A B C D E F

A: Series  
 B: Category Code  
 C: Dimension  
 D: Material  
 E: Inductance  
 F: Inductance Tolerance

A x B x C  
 Ferrite  
 2R2=2.2uH  
 K=±10%, M=±20%

## 4. Specification

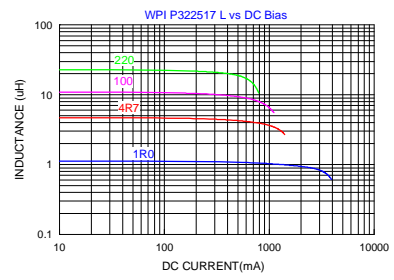
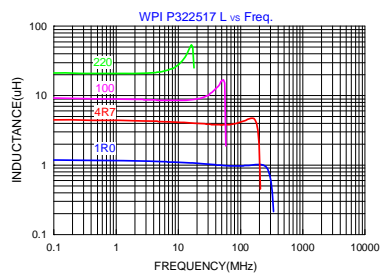
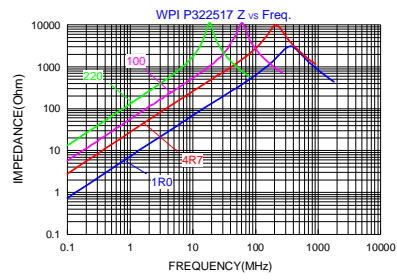
TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (MHz)	DCR (Ω) ±20%	I sat (mA) max.	I rms (mA) max.	SRF (MHz) min.
WPI P322517F-1R0M	1.0	M	0.1	0.043	2400	2200	220
WPI P322517F-1R5M	1.5	M	0.1	0.045	2200	1750	170
WPI P322517F-2R2M	2.2	M	0.1	0.065	1850	1600	150
WPI P322517F-3R3M	3.3	M	0.1	0.12	1450	1200	140
WPI P322517F-4R7M	4.7	M	0.1	0.18	1300	1000	120
WPI P322517F-6R8M	6.8	M	0.1	0.27	1050	770	90
WPI P322517F-10□	10	K, M	0.1	0.35	900	700	70
WPI P322517F-15□	15	K, M	0.1	0.57	700	530	20
WPI P322517F-22□	22	K, M	0.1	0.69	550	470	13

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)

## Impedance, Inductance v.s. Frequency Characteristics

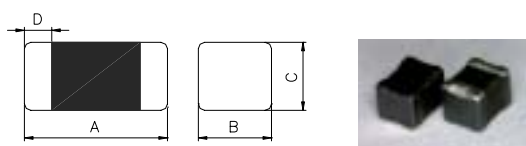


## 1.Features

1. Closed magnetic circuit avoids crosstalk.
2. S.M.T type.
3. Suitable for reflow soldering.
4. Shapes and dimensions follow E.I.A spec.
5. Propose down sizing with High Q and narrow tolerance.
6. Excellent solderability and heat resistance.
7. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



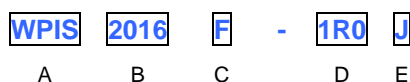
## 2. Dimensions



Chip Size	
<b>A</b>	2.00±0.20
<b>B</b>	1.60±0.20
<b>C</b>	1.60±0.20
<b>D</b>	0.50±0.20

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension L x W  
 C: Material Lead Free Material  
 D: Inductance 1R0=1.0uH  
 E: Inductance Tolerance J=±5%

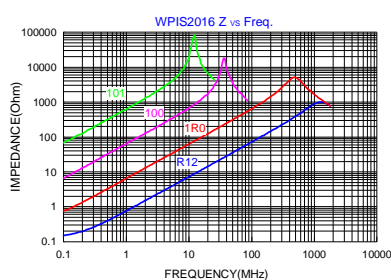
## 4.Specification

Tai-Tech Part Number	Inductance (uH)	Test Frequency (MHz)	Q (min.)	SRF(MHz) min.	DCR ( ) ±30%	Rated Current (mA) max.
WPIS2016F-R12J	0.12	25.2	30	600	0.13	610
WPIS2016F-R15J	0.15	25.2	30	550	0.15	570
WPIS2016F-R18J	0.18	25.2	30	500	0.15	560
WPIS2016F-R22J	0.22	25.2	30	450	0.20	520
WPIS2016F-R27J	0.27	25.2	30	425	0.21	510
WPIS2016F-R33J	0.33	25.2	30	400	0.21	490
WPIS2016F-R39J	0.39	25.2	30	375	0.26	440
WPIS2016F-R47J	0.47	25.2	30	350	0.26	430
WPIS2016F-R56J	0.56	25.2	30	300	0.29	410
WPIS2016F-R68J	0.68	25.2	30	270	0.32	400
WPIS2016F-R82J	0.82	25.2	30	250	0.34	390
WPIS2016F-1R0J	1.0	7.96	30	220	0.38	385
WPIS2016F-1R2J	1.2	7.96	30	180	0.41	370
WPIS2016F-1R5J	1.5	7.96	30	135	0.47	350

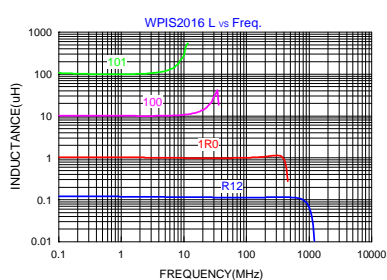
Tai-Tech Part Number	Inductance (uH)	Test Frequency (MHz)	Q (min.)	SRF(MHz) min.	DCR ( ) ±30%	Rated Current (mA) max.
WPIS2016F-1R8J	1.8	7.96	30	100	0.48	345
WPIS2016F-2R2J	2.2	7.96	30	75	0.54	340
WPIS2016F-2R7J	2.7	7.96	30	55	0.59	310
WPIS2016F-3R3J	3.3	7.96	30	48	0.68	290
WPIS2016F-3R9J	3.9	7.96	30	43	0.74	275
WPIS2016F-4R7J	4.7	7.96	30	40	0.78	270
WPIS2016F-5R6J	5.6	7.96	25	36	0.88	255
WPIS2016F-6R8J	6.8	7.96	25	33	0.97	240
WPIS2016F-8R2J	8.2	7.96	25	30	1.10	225
WPIS2016F-100J	10	2.52	25	27	1.20	215
WPIS2016F-120J	12	2.52	25	23	1.40	200
WPIS2016F-150J	15	2.52	25	20	1.50	190
WPIS2016F-180J	18	2.52	25	18	2.50	150
WPIS2016F-220J	22	2.52	25	17	2.80	140
WPIS2016F-270J	27	2.52	25	16	3.20	130
WPIS2016F-330J	33	2.52	25	15	3.60	125
WPIS2016F-390J	39	2.52	20	14	3.90	120
WPIS2016F-470J	47	2.52	20	13	4.10	115
WPIS2016F-560J	56	2.52	20	12	5.90	95
WPIS2016F-680J	68	2.52	20	11	7.00	90
WPIS2016F-820J	82	2.52	20	10	7.70	85
WPIS2016F-101J	100	0.796	15	9	8.00	80

### Impedance, Inductance, Q v.s. Frequency Characteristics

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Q v.s. Frequency Characteristics

