

TWHF Series (Rev. 1.0)



Features

- * Can be used for high frequency bands up to GHz and stable inductance at high frequency.
- * The high self resonant frequency realizes high Q value.
- * Resin-coated surface enables excellent mounting.
- * Low DC resistance design is ideal for low loss.
- * High output and low power consumption.

Product Identification

TWHF 0805 - 2R2 J
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 2.2uH
4. Tolerance: G=2%, J=±5%, K=±10%

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

Applications

- * For high-frequency applications including mobile phones, portable phones.
- * Base Station.
- * Wireless LAN/ mouse/ keyboard/ earphone
- * Bluetooth
- * Remote control
- * Repeater

Operating & Storage Condition

- * Operating Temp : -40 to +85°C
- * Storage Temp : -40 to +85°C
- * Storage Life Time: 12 Months @25°C , RH 65%

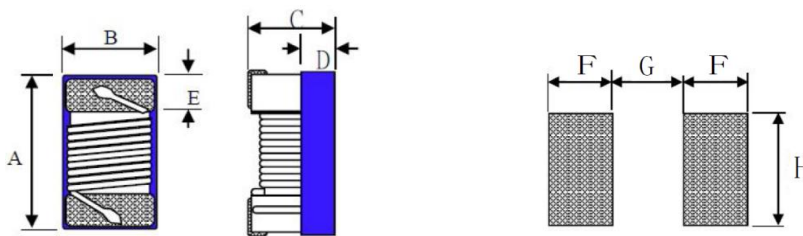
Test Equipment

- * HP4291A-Z, HP4284A, HP42841A- L, IDC, Q, RDC
- * HP8753D Network Analyzer- SRF

Standard Atmospheric Conditions

- * Ambient Temp : 20±15°C
- * Relative Humidity : 75±10%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(±0.1)	F(ref.)	G(ref.)	H(ref.)
0402	1.27	0.76	0.61	0.15	0.23	0.50	0.46	0.66
0603	1.80	1.20	1.02	0.45	0.33	0.64	0.64	1.02
0805	2.40	1.73	1.52	0.65	0.44	1.02	0.76	1.78
1008	2.90	2.54	2.03	1.30	0.45	1.02	1.27	2.54



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Electrical Characteristics

P/N	Inductance (nH) MHz	Tolerance	Q (min.) MHz	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.	900MHz		1.7GHz	
							L typ.	Q typ.	L typ.	Q typ.
TWHF0402-1N0□	1.0/250	K	16/250	12.70	0.045	1360	1.02	77	1.02	69
TWHF0402-1N9□	1.9/250	J,K	16/250	11.30	0.070	1040	1.72	68	1.74	82
TWHF0402-2N0□	2.0/250	J,K	16/250	11.10	0.070	1040	1.93	54	1.93	75
TWHF0402-2N2□	2.2/250	J,K	19/250	10.80	0.070	960	2.19	59	2.23	100
TWHF0402-2N4□	2.4/250	J,K	15/250	10.50	0.070	790	2.24	51	2.27	68
TWHF0402-2N7□	2.7/250	J,K	16/250	10.40	0.120	640	2.23	42	2.25	61
TWHF0402-3N3□	3.3/250	J,K	19/250	7.00	0.066	840	3.10	65	3.12	87
TWHF0402-3N6□	3.6/250	J,K	19/250	6.80	0.066	840	3.56	45	3.62	71
TWHF0402-3N9□	3.9/250	J,K	19/250	5.80	0.066	840	3.89	50	4.00	75
TWHF0402-4N3□	4.3/250	J,K	18/250	6.00	0.091	700	4.19	47	4.30	71
TWHF0402-4N7□	4.7/250	J,K	15/250	4.70	0.130	640	4.55	48	4.68	68
TWHF0402-5N1□	5.1/250	J,K	20/250	4.80	0.083	800	5.15	56	5.25	82
TWHF0402-5N6□	5.6/250	J,K	20/250	4.80	0.083	760	5.16	54	5.28	81
TWHF0402-6N2□	6.2/250	J,K	20/250	4.80	0.083	760	6.16	52	6.37	76
TWHF0402-6N8□	6.8/250	J,K	20/250	4.80	0.083	680	6.56	63	6.93	78
TWHF0402-7N5□	7.5/250	J,K	22/250	4.80	0.104	680	7.91	60	8.22	88
TWHF0402-8N2□	8.2/250	J,K	22/250	4.40	0.104	680	8.50	57	8.85	84
TWHF0402-8N7□	8.7/250	J,K	18/250	4.10	0.200	480	8.78	54	9.21	73
TWHF0402-9N0□	9.0/250	J,K	22/250	4.16	0.104	680	9.07	62	9.53	78
TWHF0402-9N5□	9.5/250	J,K	18/250	4.00	0.200	480	9.42	54	9.98	69
TWHF0402-10N□	10/250	J,K	21/250	3.90	0.195	480	9.80	50	10.10	67
TWHF0402-11N□	11/250	J,K	24/250	3.68	0.120	640	10.70	52	11.20	78
TWHF0402-12N□	12/250	J,K	24/250	3.60	0.120	640	11.90	53	12.70	71
TWHF0402-13N□	13/250	J,K	24/250	3.45	0.210	440	13.40	51	14.60	57
TWHF0402-15N□	15/250	J,K	24/250	3.28	0.172	560	14.60	55	15.50	77
TWHF0402-16N□	16/250	J,K	24/250	3.10	0.220	560	16.60	46	18.80	47
TWHF0402-18N□	18/250	J,K	24/250	3.10	0.230	420	18.30	57	20.30	62
TWHF0402-19N□	19/250	J,K	24/250	3.04	0.202	480	19.10	50	21.10	67
TWHF0402-20N□	20/250	J,K	25/250	3.00	0.250	420	20.70	52	23.70	53
TWHF0402-22N□	22/250	J,K	25/250	2.80	0.300	400	23.20	53	26.80	53
TWHF0402-23N□	23/250	J,K	22/250	2.72	0.300	400	23.80	49	26.90	64
TWHF0402-24N□	24/250	J,K	25/250	2.70	0.300	400	25.10	51	29.50	50
TWHF0402-27N□	27/250	G,J,K	24/250	2.48	0.300	400	28.70	49	33.50	63
TWHF0402-30N□	30/250	J,K	25/250	2.35	0.350	400	31.10	46	38.50	39
TWHF0402-33N□	33/250	J,K	24/250	2.35	0.350	400	34.90	31	41.70	32
TWHF0402-36N□	36/250	J,K	24/250	2.32	0.440	320	39.50	44	48.40	53
TWHF0402-39N□	39/250	J,K	25/250	2.10	0.550	200	41.70	47	50.20	45
TWHF0402-40N□	40/250	J,K	24/250	2.24	0.440	320	39.00	44	47.40	33
TWHF0402-43N□	43/250	J,K	25/250	2.03	0.810	100	45.80	46	61.60	34
TWHF0402-47N□	47/250	J,K	20/250	2.10	0.830	150	50.00	38	55.80	37
TWHF0402-51N□	51/250	J,K	25/250	1.75	0.820	100	50.40	47	59.40	37
TWHF0402-56N□	56/250	J,K	22/250	1.76	0.970	100	57.40	49	72.40	40
TWHF0402-68N□	68/250	J,K	22/250	1.62	1.120	100	69.60	45	83.40	38
TWHF0402-75N□	75/250	J	22/250	1.50	1.300	80				
TWHF0402-R10□	100/250	J	22/250	1.16	2.000	30				
TWHF0402-R12□	120/250	J,K	20/250	>1.80	2.660	50				

* Tolerance: G=±2%, J=±5%, K=±10%

* Irms for a 15°C rise above 25°C ambient.



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Electrical Characteristics

P/N	Inductance (nH) MHz	Tolerance	Q (min.) MHz	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.	900MHz		1.7GHz		Color Coding
							L typ.	Q typ.	L typ.	Q typ.	
TWHF0603-1N6□	1.6/250	J,K	24/250	12500	0.030	700	1.61	73	1.61	90	Red
TWHF0603-1N8□	1.8/250	J,K	16/250	12500	0.045	700	1.77	47	1.77	60	Black
TWHF0603-2N2□	2.2/250	J,K	13/250	12500	0.025	700	2.14	26	2.13	34	Yellow
TWHF0603-3N3□	3.3/250	J,K	30/250	5900	0.045	700	3.42	73.45	3.46	95	Blue
TWHF0603-3N6□	3.6/250	J,K	22/250	5900	0.063	700	3.68	64	3.73	83	Red
TWHF0603-3N9□	3.9/250	J,K	22/250	6900	0.080	700	3.90	50.11	3.94	67	Brown
TWHF0603-4N3□	4.3/250	J,K	22/250	5900	0.063	700	4.44	68	4.59	82	Orange
TWHF0603-4N7□	4.7/250	J,K	20/250	5800	0.085	700	4.65	58.79	4.75	75	Violet
TWHF0603-5N1□	5.1/250	J,K	20/250	5700	0.115	700	5.07	55	5.21	70	Green
TWHF0603-5N6□	5.6/250	J,K	20/250	5800	0.160	700	5.48	43.67	5.66	55	Black
TWHF0603-6N3□	6.3/250	J,K	26/250	5700	0.115	700	6.54	69	6.71	89	White
TWHF0603-6N8□	6.8/250	J,K	27/250	5800	0.125	700	6.89	62.87	7.08	82	Red
TWHF0603-7N5□	7.5/250	J,K	28/250	4800	0.115	700	7.57	65	7.84	86	Brown
TWHF0603-8N2□	8.2/250	J,K	30/250	4700	0.125	700	8.13	65.01	8.47	82	Orange
TWHF0603-8N7□	8.7/250	J,K	28/250	4600	0.109	700	8.76	64	9.22	76	Yellow
TWHF0603-9N1□	9.1/250	J,K	28/250	4600	0.120	700	9.21	62	9.77	76	Black
TWHF0603-9N5□	9.5/250	J,K	28/250	5400	0.145	700	9.79	62	10.58	69	Blue
TWHF0603-10N□	10/250	G,J,K	31/250	4800	0.145	700	10.36	69.22	10.81	91	Orange
TWHF0603-11N□	11/250	G,J,K	30/250	4000	0.145	700	11.22	68	11.80	86	Gray
TWHF0603-12N□	12/250	G,J,K	35/250	4000	0.140	700	12.37	69.26	13.22	83	Yellow
TWHF0603-15N□	15/250	G,J,K	35/250	4000	0.180	700	15.22	77	16.37	89	Green
TWHF0603-16N□	16/250	G,J,K	34/250	3300	0.170	700	16.60	79.11	18.38	80	White
TWHF0603-18N□	18/250	G,J,K	35/250	3100	0.180	700	18.44	76	20.05	80	Blue
TWHF0603-19N□	19/250	G,J,K	35/250	3000	0.190	700	19.71	73.77	23.35	63	Brown
TWHF0603-20N□	20/250	G,J,K	38/250	3000	0.180	700	20.50	80	23.27	87	Red
TWHF0603-22N□	22/250	G,J,K	38/250	3000	0.190	700	22.66	78.78	25.67	84	Violet
TWHF0603-23N□	23/250	G,J,K	38/250	2850	0.205	700	24.19	71	28.48	73	Orange
TWHF0603-24N□	24/250	G,J,K	36/250	2650	0.205	700	25.74	70.93	31.01	63	Black
TWHF0603-25N□	25/250	G,J,K	38/250	2800	0.210	600	25.93	85	29.73	90	Yellow
TWHF0603-27N□	27/250	G,J,K	40/250	2800	0.220	600	29.03	59.83	37.43	46	Gray
TWHF0603-30N□	30/250	G,J,K	37/250	2250	0.220	600	32.91	69	41.66	60	Brown
TWHF0603-33N□	33/250	G,J,K	40/250	2300	0.220	600	35.72	61.57	47.39	50	White
TWHF0603-36N□	26/250	G,J,K	37/250	2080	0.250	600	39.45	64	50.92	60	Red
TWHF0603-39N□	39/250	G,J,K	40/250	2200	0.260	600	42.71	61.22	58.42	48	Black
TWHF0603-43N□	43/250	G,J,K	38/250	2000	0.280	600	47.21	63	64.17	53	Orange
TWHF0603-47N□	47/250	G,J,K	38/250	2000	0.280	600	51.82	52.98	77.03	39	Brown
TWHF0603-51N□	51/250	G,J,K	38/250	2130	0.300	600	59.27	51	103.80	24	Violet
TWHF0603-56N□	56/250	G,J,K	38/200	1900	0.310	600	64.38	51.47	108.10	29	Red
TWHF0603-62N□	62/250	G,J,K	37/200	1800	0.330	600	73.30	43	156.50	16	Gray
TWHF0603-68N□	68/250	G,J,K	37/200	1700	0.340	600	80.23	44.33	174.00	18	Orange
TWHF0603-72N□	72/250	G,J,K	34/150	1700	0.490	400	86.67	41	212.90	16	Yellow
TWHF0603-79N□	79/250	G,J,K	34/150	1700	0.500	400	87.02	44.18			White
TWHF0603-82N□	82/250	G,J,K	34/150	1700	0.540	400	101.20	38	300.60	12	Green
TWHF0603-91N□	91/250	G,J,K	34/150	1500	0.560	400	111.80	49.36			Brown
TWHF0603-R10□	100/150	G,J,K	34/150	1400	0.580	400	126.90	36			Blue
TWHF0603-R11□	110/150	G,J,K	32/150	1350	0.610	300	146.80	34.58			Violet
TWHF0603-R12□	120/150	G,J,K	32/150	1300	0.650	300	166.80	29			Gray
TWHF0603-R13□	130/150	G,J,K	32/150	1200	0.750	280	180.10	36.93			Orange
TWHF0603-R15□	150/150	G,J,K	28/150	990	0.920	280	234.90	22			White
TWHF0603-R17□	170/100	G,J,K	25/100	990	1.150	240	228.40	34.96			Yellow
TWHF0603-R18□	180/100	G,J,K	25/100	990	1.250	240	289.10	20			Black
TWHF0603-R19□	190/100	G,J,K	25/100	990	1.350	200	279.10	30.83			Green
TWHF0603-R20□	200/100	G,J,K	25/100	990	1.500	200					Orange
TWHF0603-R22□	220/100	G,J,K	25/100	900	1.600	250					Brown
TWHF0603-R24□	240/100	G,J,K	25/100	900	1.900	200					Violet
TWHF0603-R27□	270/100	G,J,K	25/100	900	2.000	170					Red
TWHF0603-R33□	330/100	G,J,K	25/100	900	2.750	100					Blue
TWHF0603-R34□	34/100	G,J,K	25/100	900	2.900	100					Gray
TWHF0603-R39□	390/100	G,J,K	25/100	900	3.150	100					Yellow
TWHF0603-R47□	470/100	G,J,K	25/100	750	4.000	80					Green

* Tolerance: G \pm 2%, J \pm 5%, K \pm 10%

* Irms for a 15°C rise above 25°C ambient.



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TWHF0805-2N8□	2.8/250	J,K	55/1500	7900	0.06	800	Gray
TWHF0805-3N0□	3.0/250	J,K	55/1500	7900	0.08	800	White
TWHF0805-5N1□	5.1/250	J,K	60/1000	5800	0.06	600	Yellow
TWHF0805-5N6□	5.6/250	J,K	65/1000	5500	0.08	600	Orange
TWHF0805-6N2□	6.2/250	J,K	50/1000	5500	0.11	800	Violet
TWHF0805-6N8□	6.8/250	J,K	50/1000	5500	0.11	600	Brown
TWHF0805-7N5□	7.5/250	J,K	50/1000	4500	0.14	600	Green
TWHF0805-8N2□	8.2/250	J,K	50/1000	4700	0.16	600	Red
TWHF0805-8N7□	8.7/250	J,K	50/1000	4700	0.23	600	Violet
TWHF0805-10N□	10/250	G,J,K	60/500	4200	0.10	600	Blue
TWHF0805-12N□	12/250	G,J,K	50/500	4000	0.15	600	Orange
TWHF0805-15N□	15/250	G,J,K	50/500	3400	0.17	700	Yellow
TWHF0805-18N□	18/250	G,J,K	50/500	3300	0.20	600	Green
TWHF0805-22N□	22/250	G,J,K	55/500	2600	0.22	500	Blue
TWHF0805-24N□	24/250	G,J,K	50/500	2000	0.22	500	Gray
TWHF0805-27N□	27/250	G,J,K	55/500	2500	0.25	500	Violet
TWHF0805-33N□	33/250	G,J,K	60/500	2050	0.27	500	Gray
TWHF0805-36N□	36/250	G,J,K	55/500	1700	0.27	500	Orange
TWHF0805-39N□	39/250	G,J,K	60/500	2000	0.29	500	White
TWHF0805-43N□	43/200	G,J,K	60/500	1650	0.34	500	Yellow
TWHF0805-47N□	47/200	G,J,K	60/500	1650	0.31	700	Black
TWHF0805-56N□	56/200	G,J,K	60/500	1550	0.34	500	Brown
TWHF0805-68N□	68/200	G,J,K	60/500	1450	0.38	500	Red
TWHF0805-75N□	75/200	G,J,K	60/500	1400	0.40	400	Violet
TWHF0805-82N□	82/150	G,J,K	65/500	1300	0.42	400	Orange
TWHF0805-91N□	91/150	G,J,K	65/500	1200	0.48	400	Black
TWHF0805-R10□	100/150	G,J,K	65/500	1200	0.46	400	Yellow
TWHF0805-R11□	110/150	G,J,K	50/250	1000	0.48	400	Brown
TWHF0805-R12□	120/150	G,J,K	50/250	1100	0.51	400	Green
TWHF0805-R15□	150/100	G,J,K	50/250	920	0.56	400	Blue
TWHF0805-R16□	160/100	G,J,K	50/250	900	0.60	400	Gray
TWHF0805-R18□	180/100	G,J,K	50/250	870	0.64	400	Violet
TWHF0805-R20□	200/100	G,J,K	50/250	865	0.68	400	Red
TWHF0805-R22□	220/100	G,J,K	50/250	850	0.70	400	Gray
TWHF0805-R24□	240/100	G,J,K	44/250	690	1.00	350	Red
TWHF0805-R25□	250/100	G,J,K	48/250	680	1.00	350	Yellow
TWHF0805-R27□	270/100	G,J,K	48/250	650	1.00	350	White
TWHF0805-R33□	330/100	G,J,K	48/250	750	1.40	310	Black
TWHF0805-R36□	360/100	J,K	48/250	650	1.45	300	Orange
TWHF0805-R39□	390/100	G,J,K	48/250	560	1.50	290	Brown
TWHF0805-R43□	430/50	G,J,K	33/100	430	1.70	270	Blue
TWHF0805-R47□	470/50	G,J,K	30/100	375	1.76	250	Violet
TWHF0805-R56□	560/25	G,J,K	23/50	340	1.90	230	Orange
TWHF0805-R62□	620/25	G,J,K	23/50	220	2.20	210	White
TWHF0805-R68□	680/25	G,J,K	23/50	188	2.20	190	Green
TWHF0805-R75□	750/25	G,J,K	23/50	200	2.30	180	Violet
TWHF0805-R82□	820/25	G,J,K	23/50	215	2.35	180	Blue
TWHF0805-R91□	910/25	J,K	22/50	210	2.40	180	Yellow
TWHF0805-1R0□	1000/25	G,J,K	22/50	200	2.45	180	Violet
TWHF0805-1R2□	1200/7.9	G,J,K	16/7.9	160	2.45	170	Green
TWHF0805-1R5□	1500/7.9	G,J,K	16/7.9	120	2.50	170	Black
TWHF0805-1R8□	1800/7.9	G,J,K	16/7.9	80	2.50	170	Brown
TWHF0805-2R2□	2200/7.9	G,J,K	16/7.9	60	2.70	160	Red
TWHF0805-2R7□	2700/7.9	G,J,K	16/7.9	50	3.80	160	Orange

* Tolerance: G=±2%, J=±5%, K=±10%

* Irms for a 15°C rise above 25°C ambient.



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Electrical Characteristics

P/N	Inductance (nH) MHz	Tolerance	Q (min.) MHz	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.	Color Coding		
							1st	2nd	3rd
TWHF1008-10N□	10/50	G,J,K	50/500	4100	0.08	1000	Brown	Black	Black
TWHF1008-12N□	12/50	G,J,K	50/500	3300	0.09	1000	Brown	Red	Black
TWHF1008-15N□	15/50	G,J,K	50/500	2500	0.16	1000	Brown	Green	Black
TWHF1008-18N□	18/50	G,J,K	50/350	2500	0.11	1000	Brown	Gray	Black
TWHF1008-22N□	22/50	G,J,K	55/350	2400	0.12	1000	Red	Red	Black
TWHF1008-27N□	27/50	G,J,K	50/350	1600	0.13	1000	Red	Violet	Black
TWHF1008-33N□	33/50	G,J,K	60/350	1600	0.14	1000	Orange	Orange	Black
TWHF1008-39N□	39/50	G,J,K	60/350	1500	0.15	1000	Orange	White	Black
TWHF1008-47N□	47/50	G,J,K	65/350	1500	0.16	1000	Yellow	Violet	Black
TWHF1008-56N□	56/50	G,J,K	65/350	1300	0.18	1000	Green	Blue	Black
TWHF1008-68N□	68/50	G,J,K	65/350	1300	0.20	1000	Blue	Gray	Black
TWHF1008-82N□	82/50	G,J,K	60/350	1000	0.22	1000	Gray	Red	Black
TWHF1008-R10□	100/25	G,J,K	60/350	1000	0.56	650	Brown	Black	Brown
TWHF1008-R12□	120/25	G,J,K	60/350	950	0.63	650	Brown	Red	Brown
TWHF1008-R15□	150/25	G,J,K	45/100	850	0.70	580	Brown	Green	Brown
TWHF1008-R18□	180/25	G,J,K	45/100	750	0.77	620	Brown	Gray	Brown
TWHF1008-R22□	220/25	G,J,K	45/100	700	0.84	500	Red	Red	Brown
TWHF1008-R27□	270/25	G,J,K	45/100	600	0.91	500	Red	Violet	Brown
TWHF1008-R33□	330/25	G,J,K	45/100	570	1.05	450	Orange	Orange	Brown
TWHF1008-R39□	390/25	G,J,K	45/100	500	1.12	470	Orange	White	Brown
TWHF1008-R47□	470/25	G,J,K	45/100	450	1.19	470	Yellow	Violet	Brown
TWHF1008-R56□	560/25	G,J,K	45/100	415	1.33	400	Green	Blue	Brown
TWHF1008-R62□	620/25	G,J,K	45/100	375	1.40	300	Blue	Red	Brown
TWHF1008-R68□	680/25	G,J,K	45/100	375	1.47	400	Blue	Gray	Brown
TWHF1008-R75□	750/25	G,J,K	45/100	360	1.54	360	Violet	Green	Brown
TWHF1008-R82□	820/25	G,J,K	45/100	350	1.61	400	Gray	Red	Brown
TWHF1008-R91□	910/25	G,J,K	35/50	320	1.68	380	White	Brown	Brown
TWHF1008-1R0□	1000/25	G,J,K	35/50	290	1.75	400	Brown	Black	Red
TWHF1008-1R2□	1200/7.9	G,J,K	35/50	250	2.00	310	Brown	Red	Red
TWHF1008-1R5□	1500/7.9	G,J,K	28/50	200	2.30	330	Brown	Green	Red
TWHF1008-1R8□	1800/7.9	G,J,K	28/50	160	2.60	300	Brown	Gray	Red
TWHF1008-2R2□	2200/7.9	G,J,K	28/50	160	2.80	280	Red	Red	Red
TWHF1008-2R7□	2700/7.9	G,J,K	22/25	135	3.20	290	Red	Violet	Red
TWHF1008-3R3□	3300/7.9	G,J,K	22/25	110	3.40	290	Orange	Orange	Red
TWHF1008-3R9□	3900/7.9	G,J,K	20/25	100	3.60	260	Orange	White	Red
TWHF1008-4R7□	4700/7.9	G,J,K	20/25	90	4.00	260	Yellow	Violet	Red
TWHF1008-5R6□	5600/7.9	G,J,K	18/7.9	40	4.20	240	Green	Blue	Red
TWHF1008-6R8□	6800/7.9	G,J,K	18/7.9	40	4.90	200	Blue	Gray	Red
TWHF1008-8R2□	8200/7.9	G,J,K	18/7.9	25	6.00	170	Gray	Red	Red
TWHF1008-100□	10000/2.5	G,J,K	18/7.9	25	8.00	150	Brown	Black	Orange

* Tolerance: G=±2%, J=±5%, K=±10%

* Irms for a 15°C rise above 25°C ambient.

