

**Features:**

- Standard chip bead used to suppress lower frequency and lower current signals
- Offers impedance over a broad frequency range
- High current option available up to 6 A
- Suitable for flow and reflow soldering
- Multiple sizes available
- RoHS compliant, REACH compliant, lead free, and halogen free
- Contact Stackpole for additional inductance values

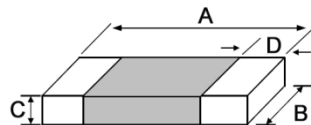


**Applications:**

- Computers and peripheral equipment
- VCRS, televisions
- Cellular phones
- Digital communication equipment
- Various electronic equipment
- Circuit where a stable ground is unavailable

Impedance and Current Ranges		
General Purpose		
Part Number	Impedance ( $\Omega$ )	Rated Current (mA)
FB02YTYN	6 - 1500	500 - 60
FB03YTYN	6 - 2700	500 - 50
FB05YTYN	5 - 2700	600 - 200
FB04YTYN	8 - 2700	600 - 200
FB06YTYN	25 - 70	500
FB10YTYN	32 - 120	500
FB08YTYN	33 - 170	600 - 500
FB12YTYN	70 - 120	500
High Current		
Part Number	Impedance ( $\Omega$ )	Rated Current (mA)
FB02YTYH	10	1000
FB03YTYH	10 - 1500	4000 - 500
FB05YTYH	11 - 1500	6000 - 1000
FB04YTYH	7 - 1500	6000 - 800
FB10YTYH	19 - 90	4000 - 3000
FB08YTYH	19 - 1300	6000 - 2000
FB12YTYH	19 - 190	6000 - 4000
High Speed		
Part Number	Impedance ( $\Omega$ )	Rated Current (mA)
FB02YTQS	6 - 220	300 - 200
FB03YTQS	6 - 2500	500 - 50
FB05YTQS	5 - 2700	800 - 200
FB04YTQS	15 - 1500	600 - 200

**Mechanical Specifications**



Type / Code	Size	Weight (g) (1000 pc)	A	B	C	D	Unit
FB02	0402	2.6	0.039 ± 0.004 1.00 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.004 ~ 0.014 0.10 ~ 0.35	inches mm

Mechanical Specifications (cont.)							
Type / Code	Size	Weight (g) (1000 pc)	A	B	C	D	Unit
FB03	0603	6.2	0.063 ± 0.008	0.031 ± 0.006	0.031 ± 0.006	0.004 ~ 0.024	inches
			1.60 ± 0.20	0.80 ± 0.15	0.80 ± 0.15	0.10 ~ 0.60	mm
FB05	0805	10	0.079 ± 0.008	0.049 ± 0.008	0.035 ± 0.008	0.008 ~ 0.031	inches
			2.00 ± 0.20	1.25 ± 0.20	0.90 ± 0.20	0.20 ~ 0.80	mm
FB04	1204	30	0.126 ± 0.008	0.063 ± 0.008	0.043 ± 0.008	0.008 ~ 0.039	inches
			3.20 ± 0.20	1.60 ± 0.20	1.10 ± 0.20	0.20 ~ 1.00	mm
FB06	1206	42	0.126 ± 0.008	0.063 ± 0.008	0.063 ± 0.008	0.008 ~ 0.039	inches
			3.20 ± 0.20	1.60 ± 0.20	1.60 ± 0.20	0.20 ~ 1.00	mm
FB10	1210	54	0.126 ± 0.008	0.098 ± 0.008	0.051 ± 0.008	0.008 ~ 0.039	inches
			3.20 ± 0.20	2.50 ± 0.20	1.30 ± 0.20	0.20 ~ 1.00	mm
FB08	1808	60	0.177 ± 0.010	0.063 ± 0.008	0.063 ± 0.008	0.008 ~ 0.039	inches
			4.50 ± 0.25	1.60 ± 0.20	1.60 ± 0.20	0.20 ~ 1.00	mm
FB12	1812	62	0.177 ± 0.010	0.126 ± 0.008	0.059 ± 0.008	0.008 ~ 0.039	inches
			4.50 ± 0.25	3.20 ± 0.20	1.50 ± 0.20	0.20 ~ 1.00	mm

Electrical Specifications – General Purpose					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB02YTYN060	6	25%	100	0.05	500
FB02YTYN100	10	25%	100	0.05	500
FB02YTYN300	30	25%	100	0.2	300
FB02YTYN330	33	25%	100	0.3	300
FB02YTYN400	40	25%	100	0.3	300
FB02YTYN470	47	25%	100	0.3	300
FB02YTYN600	60	25%	100	0.4	300
FB02YTYN700	70	25%	100	0.4	300
FB02YTYN750	75	25%	100	0.4	300
FB02YTYN800	80	25%	100	0.4	300
FB02YTYN900	90	25%	100	0.5	300
FB02YTYN101	100	25%	100	0.5	300
FB02YTYN121	120	25%	100	0.5	300
FB02YTYN151	150	25%	100	0.5	300
FB02YTYN221	220	25%	100	0.5	300
FB02YTYN241	240	25%	100	0.5	300
FB02YTYN301	300	25%	100	0.8	300
FB02YTYN331	330	25%	100	0.8	300
FB02YTYN481	480	25%	100	0.8	300
FB02YTYN601	600	25%	100	1	300
FB02YTYN102	1000	25%	100	1.5	100
FB02YTYN152	1500	25%	100	2	60

Electrical Specifications – General Purpose					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB03YTYN060	6	25%	100	0.05	500
FB03YTYN070	7	25%	100	0.05	500
FB03YTYN100	10	25%	100	0.05	500
FB03YTYN110	11	25%	100	0.05	500
FB03YTYN150	15	25%	100	0.08	500
FB03YTYN170	17	25%	100	0.08	500

**Electrical Specifications – General Purpose**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB03YTYN190	19	25%	100	0.08	500
FB03YTYN200	20	25%	100	0.1	400
FB03YTYN220	22	25%	100	0.1	400
FB03YTYN250	25	25%	100	0.1	400
FB03YTYN260	26	25%	100	0.1	400
FB03YTYN300	30	25%	100	0.1	400
FB03YTYN310	31	25%	100	0.1	400
FB03YTYN320	32	25%	100	0.1	400
FB03YTYN330	33	25%	100	0.1	400
FB03YTYN400	40	25%	100	0.1	400
FB03YTYN470	47	25%	100	0.1	400
FB03YTYN500	50	25%	100	0.1	400
FB03YTYN520	52	25%	100	0.1	400
FB03YTYN550	55	25%	100	0.1	400
FB03YTYN560	56	25%	100	0.1	400
FB03YTYN600	60	25%	100	0.1	400
FB03YTYN680	68	25%	100	0.15	400
FB03YTYN700	70	25%	100	0.15	400
FB03YTYN750	75	25%	100	0.15	400
FB03YTYN800	80	25%	100	0.15	400
FB03YTYN900	90	25%	100	0.2	400
FB03YTYN101	100	25%	100	0.2	400
FB03YTYN121	120	25%	100	0.25	400
FB03YTYN141	140	25%	100	0.25	300
FB03YTYN151	150	25%	100	0.3	200
FB03YTYN181	180	25%	100	0.3	200
FB03YTYN201	200	25%	100	0.3	200
FB03YTYN221	220	25%	100	0.3	200
FB03YTYN241	240	25%	100	0.4	200
FB03YTYN301	300	25%	100	0.4	200
FB03YTYN331	330	25%	100	0.5	200
FB03YTYN401	400	25%	100	0.5	200
FB03YTYN421	420	25%	100	0.5	200
FB03YTYN451	450	25%	100	0.5	200
FB03YTYN471	470	25%	100	0.5	200
FB03YTYN501	500	25%	100	0.5	200
FB03YTYN601	600	25%	100	0.5	200
FB03YTYN751	750	25%	100	0.7	200
FB03YTYN801	800	25%	100	0.7	200
FB03YTYN102	1000	25%	100	0.7	200
FB03YTYN122	1200	25%	100	1	50
FB03YTYN152	1500	25%	100	1	50
FB03YTYN172	1700	25%	100	1.2	50
FB03YTYN202	2000	25%	100	1.2	50
FB03YTYN222	2200	25%	100	1.2	50
FB03YTYN252	2500	25%	100	1.3	50
FB03YTYN272	2700	25%	100	1.3	50

**Electrical Specifications – General Purpose**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB05YTYN050	5	25%	100	0.1	600
FB05YTYN070	7	25%	100	0.1	600
FB05YTYN090	9	25%	100	0.1	600
FB05YTYN100	10	25%	100	0.1	600
FB05YTYN110	11	25%	100	0.1	600
FB05YTYN120	12	25%	100	0.1	600
FB05YTYN150	15	25%	100	0.1	600
FB05YTYN170	17	25%	100	0.1	300
FB05YTYN190	19	25%	100	0.1	300
FB05YTYN220	22	25%	100	0.1	300
FB05YTYN260	26	25%	100	0.1	300
FB05YTYN280	28	25%	100	0.1	300
FB05YTYN300	30	25%	100	0.1	300
FB05YTYN310	31	25%	100	0.1	300
FB05YTYN320	32	25%	100	0.1	300
FB05YTYN330	33	25%	100	0.1	300
FB05YTYN390	39	25%	100	0.1	300
FB05YTYN400	40	25%	100	0.1	300
FB05YTYN420	42	25%	100	0.1	300
FB05YTYN470	47	25%	100	0.1	300
FB05YTYN500	50	25%	100	0.1	300
FB05YTYN520	52	25%	100	0.15	300
FB05YTYN560	56	25%	100	0.15	300
FB05YTYN600	60	25%	100	0.15	300
FB05YTYN700	70	25%	100	0.15	300
FB05YTYN750	75	25%	100	0.15	300
FB05YTYN800	80	25%	100	0.15	300
FB05YTYN900	90	25%	100	0.15	300
FB05YTYN950	95	25%	100	0.15	300
FB05YTYN101	100	25%	100	0.25	300
FB05YTYN121	120	25%	100	0.25	300
FB05YTYN151	150	25%	100	0.25	300
FB05YTYN181	180	25%	100	0.3	300
FB05YTYN201	200	25%	100	0.3	300
FB05YTYN221	220	25%	100	0.3	300
FB05YTYN241	240	25%	100	0.3	300
FB05YTYN301	300	25%	100	0.3	300
FB05YTYN331	330	25%	100	0.3	300
FB05YTYN401	400	25%	100	0.3	300
FB05YTYN421	420	25%	100	0.3	300
FB05YTYN431	430	25%	100	0.4	300
FB05YTYN451	450	25%	100	0.4	300
FB05YTYN471	470	25%	100	0.4	300
FB05YTYN501	500	25%	100	0.4	300
FB05YTYN601	600	25%	100	0.4	300
FB05YTYN681	680	25%	100	0.4	300
FB05YTYN751	750	25%	100	0.5	200
FB05YTYN102	1000	25%	100	0.5	200
FB05YTYN122	1200	25%	100	0.6	200
FB05YTYN152	1500	25%	100	0.6	200
FB05YTYN202	2000	25%	100	0.7	200
FB05YTYN222	2200	25%	100	0.7	200
FB05YTYN252	2500	25%	100	0.7	200
FB05YTYN272	2700	25%	100	0.7	200

Electrical Specifications – General Purpose					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB04YTYN080	8	25%	100	0.05	600
FB04YTYN090	9	25%	100	0.05	600
FB04YTYN110	11	25%	100	0.05	600
FB04YTYN170	17	25%	100	0.05	600
FB04YTYN190	19	25%	100	0.05	600
FB04YTYN220	22	25%	100	0.05	600
FB04YTYN240	24	25%	100	0.05	600
FB04YTYN260	26	25%	100	0.05	600
FB04YTYN300	30	25%	100	0.05	600
FB04YTYN310	31	25%	100	0.05	600
FB04YTYN320	32	25%	100	0.05	600
FB04YTYN330	33	25%	100	0.05	600
FB04YTYN350	35	25%	100	0.1	500
FB04YTYN470	47	25%	100	0.1	500
FB04YTYN500	50	25%	100	0.1	500
FB04YTYN520	52	25%	100	0.1	500
FB04YTYN600	60	25%	100	0.1	500
FB04YTYN700	70	25%	100	0.1	500
FB04YTYN750	75	25%	100	0.15	500
FB04YTYN800	80	25%	100	0.15	500
FB04YTYN900	90	25%	100	0.15	500
FB04YTYN101	100	25%	100	0.15	500
FB04YTYN121	120	25%	100	0.15	500
FB04YTYN151	150	25%	100	0.15	500
FB04YTYN181	180	25%	100	0.2	400
FB04YTYN201	200	25%	100	0.2	400
FB04YTYN221	220	25%	100	0.2	400
FB04YTYN241	240	25%	100	0.2	400
FB04YTYN301	300	25%	100	0.2	400
FB04YTYN401	400	25%	100	0.2	400
FB04YTYN471	470	25%	100	0.2	400
FB04YTYN501	500	25%	100	0.2	400
FB04YTYN601	600	25%	100	0.3	400
FB04YTYN701	700	25%	100	0.4	200
FB04YTYN751	750	25%	50	0.4	200
FB04YTYN102	1000	25%	50	0.4	200
FB04YTYN152	1500	25%	50	0.45	200
FB04YTYN202	2000	25%	30	0.6	200
FB04YTYN272	2700	25%	30	0.6	200

Electrical Specifications – General Purpose					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB06YTYN250	25	25%	100	0.1	500
FB06YTYN600	60	25%	100	0.2	500
FB06YTYN700	70	25%	100	0.2	500

Electrical Specifications – General Purpose					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB10YTYN320	32	25%	100	0.2	500
FB10YTYN600	60	25%	100	0.2	500
FB10YTYN900	90	25%	100	0.2	500
FB10YTYN121	120	25%	100	0.2	500

**Electrical Specifications – General Purpose**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB08YTYN330	33	25%	100	0.2	600
FB08YTYN500	50	25%	100	0.2	600
FB08YTYN600	60	25%	100	0.2	600
FB08YTYN800	80	25%	100	0.2	600
FB08YTYN900	90	25%	100	0.3	500
FB08YTYN101	100	25%	100	0.3	500
FB08YTYN151	150	25%	100	0.3	500
FB08YTYN171	170	25%	100	0.3	500

**Electrical Specifications – General Purpose**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB12YTYN700	70	25%	100	0.3	500
FB12YTYN121	120	25%	100	0.2	500

**Electrical Specifications – High Current**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB02YTYH100	10	25%	100	0.03	1000

**Electrical Specifications – High Current**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB03YTYH100	10	25%	100	0.02	4000
FB03YTYH110	11	25%	100	0.02	4000
FB03YTYH150	15	25%	100	0.03	3000
FB03YTYH170	17	25%	100	0.03	3000
FB03YTYH190	19	25%	100	0.03	3000
FB03YTYH200	20	25%	100	0.03	3000
FB03YTYH220	22	25%	100	0.03	3000
FB03YTYH250	25	25%	100	0.03	3000
FB03YTYH300	30	25%	100	0.03	3000
FB03YTYH310	31	25%	100	0.03	3000
FB03YTYH320	32	25%	100	0.035	3000
FB03YTYH330	33	25%	100	0.035	3000
FB03YTYH400	40	25%	100	0.035	3000
FB03YTYH470	47	25%	100	0.04	3000
FB03YTYH500	50	25%	100	0.04	3000
FB03YTYH560	56	25%	100	0.04	3000
FB03YTYH600	60	25%	100	0.04	3000
FB03YTYH680	68	25%	100	0.05	2500
FB03YTYH700	70	25%	100	0.05	2500
FB03YTYH750	75	25%	100	0.05	2500
FB03YTYH800	80	25%	100	0.05	2500
FB03YTYH900	90	25%	100	0.05	2500
FB03YTYH101	100	25%	100	0.05	2500
FB03YTYH121	120	25%	100	0.08	2500
FB03YTYH151	150	25%	100	0.085	2000
FB03YTYH181	180	25%	100	0.09	2000
FB03YTYH201	200	25%	100	0.095	2000
FB03YTYH221	220	25%	100	0.1	2000

Electrical Specifications – High Current					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB03YTYH241	240	25%	100	0.12	1500
FB03YTYH301	300	25%	100	0.12	1500
FB03YTYH331	330	25%	100	0.12	1500
FB03YTYH401	400	25%	100	0.12	1500
FB03YTYH451	450	25%	100	0.15	1500
FB03YTYH471	470	25%	100	0.15	1500
FB03YTYH501	500	25%	100	0.15	1500
FB03YTYH601	600	25%	100	0.2	1000
FB03YTYH701	700	25%	100	0.25	800
FB03YTYH751	750	25%	100	0.25	800
FB03YTYH801	800	25%	100	0.25	800
FB03YTYH102	1000	25%	100	0.25	800
FB03YTYH152	1500	25%	100	0.4	500

Electrical Specifications – High Current					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB05YTYH110	11	25%	100	0.01	6000
FB05YTYH130	13	25%	100	0.02	5000
FB05YTYH150	15	25%	100	0.02	5000
FB05YTYH170	17	25%	100	0.02	5000
FB05YTYH190	19	25%	100	0.02	4000
FB05YTYH220	22	25%	100	0.02	4000
FB05YTYH260	26	25%	100	0.02	4000
FB05YTYH280	28	25%	100	0.02	4000
FB05YTYH300	30	25%	100	0.02	4000
FB05YTYH310	31	25%	100	0.02	4000
FB05YTYH320	32	25%	100	0.02	4000
FB05YTYH390	39	25%	100	0.02	3000
FB05YTYH400	40	25%	100	0.02	3000
FB05YTYH420	42	25%	100	0.025	3000
FB05YTYH500	50	25%	100	0.025	3000
FB05YTYH600	60	25%	100	0.03	3000
FB05YTYH700	70	25%	100	0.04	3000
FB05YTYH750	75	25%	100	0.04	3000
FB05YTYH800	80	25%	100	0.04	3000
FB05YTYH900	90	25%	100	0.04	3000
FB05YTYH101	100	25%	100	0.04	3000
FB05YTYH121	120	25%	100	0.04	3000
FB05YTYH131	130	25%	100	0.05	2500
FB05YTYH151	150	25%	100	0.05	2500
FB05YTYH181	180	25%	100	0.05	2500
FB05YTYH201	200	25%	100	0.05	2500
FB05YTYH221	220	25%	100	0.08	2000
FB05YTYH241	240	25%	100	0.08	2000
FB05YTYH251	250	25%	100	0.08	2000
FB05YTYH301	300	25%	100	0.08	2000
FB05YTYH331	330	25%	100	0.08	2000
FB05YTYH391	390	25%	100	0.1	2000
FB05YTYH401	400	25%	100	0.1	2000
FB05YTYH451	450	25%	100	0.1	2000



**Electrical Specifications – High Current**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB05YTYH471	470	25%	100	0.1	2000
FB05YTYH501	500	25%	100	0.1	2000
FB05YTYH601	600	25%	100	0.1	2000
FB05YTYH751	750	25%	100	0.12	1500
FB05YTYH102	1000	25%	100	0.12	1500
FB05YTYH152	1500	25%	100	0.3	1000

**Electrical Specifications – High Current**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB04YTYH070	7	25%	100	0.015	6000
FB04YTYH080	8	25%	100	0.015	6000
FB04YTYH110	11	25%	100	0.015	6000
FB04YTYH190	19	25%	100	0.015	6000
FB04YTYH260	26	25%	100	0.015	6000
FB04YTYH300	30	25%	100	0.015	4000
FB04YTYH310	31	25%	100	0.015	4000
FB04YTYH320	32	25%	100	0.015	4000
FB04YTYH350	35	25%	100	0.015	4000
FB04YTYH400	40	25%	100	0.015	4000
FB04YTYH420	42	25%	100	0.015	4000
FB04YTYH480	48	25%	100	0.02	4000
FB04YTYH500	50	25%	100	0.02	4000
FB04YTYH520	52	25%	100	0.02	4000
FB04YTYH600	60	25%	100	0.02	4000
FB04YTYH680	68	25%	100	0.02	4000
FB04YTYH700	70	25%	100	0.02	4000
FB04YTYH750	75	25%	100	0.025	3000
FB04YTYH800	80	25%	100	0.025	3000
FB04YTYH900	90	25%	100	0.03	3000
FB04YTYH101	100	25%	100	0.03	2500
FB04YTYH121	120	25%	100	0.03	2500
FB04YTYH151	150	25%	100	0.04	2000
FB04YTYH201	200	25%	100	0.05	2000
FB04YTYH221	220	25%	100	0.05	2000
FB04YTYH301	300	25%	100	0.06	2000
FB04YTYH331	330	25%	100	0.06	2000
FB04YTYH391	390	25%	100	0.06	2000
FB04YTYH401	400	25%	100	0.1	2000
FB04YTYH501	500	25%	100	0.1	2000
FB04YTYH601	600	25%	100	0.1	2000
FB04YTYH102	1000	25%	50	0.15	1200
FB04YTYH122	1200	25%	50	0.18	1000
FB04YTYH152	1500	25%	50	0.2	800



Electrical Specifications – High Current					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB10YTYH190	19	25%	100	0.025	4000
FB10YTYH320	32	25%	100	0.025	4000
FB10YTYH600	60	25%	100	0.025	4000
FB10YTYH900	90	25%	100	0.025	3000

Electrical Specifications – High Current					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB08YTYH190	19	25%	100	0.02	6000
FB08YTYH400	40	25%	100	0.02	6000
FB08YTYH500	50	25%	100	0.02	6000
FB08YTYH600	60	25%	100	0.02	5000
FB08YTYH700	70	25%	100	0.025	5000
FB08YTYH750	75	25%	100	0.025	5000
FB08YTYH800	80	25%	100	0.025	4000
FB08YTYH900	90	25%	100	0.1	2000
FB08YTYH101	100	25%	100	0.1	2000
FB08YTYH151	150	25%	100	0.1	2000
FB08YTYH191	190	25%	100	0.1	2000
FB08YTYH301	300	25%	100	0.1	2000
FB08YTYH471	470	25%	100	0.1	2000
FB08YTYH601	600	25%	100	0.1	2000
FB08YTYH851	850	25%	100	0.1	2000
FB08YTYH102	1000	25%	100	0.1	2000
FB08YTYH132	1300	25%	100	0.1	2000

Electrical Specifications – High Current					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB12YTYH190	19	25%	100	0.030	6000
FB12YTYH300	30	25%	100	0.030	6000
FB12YTYH470	47	25%	100	0.030	6000
FB12YTYH600	60	25%	100	0.030	6000
FB12YTYH700	70	25%	100	0.030	6000
FB12YTYH800	80	25%	100	0.030	4000
FB12YTYH900	90	25%	100	0.030	4000
FB12YTYH121	120	25%	100	0.030	4000
FB12YTYH151	150	25%	100	0.030	4000
FB12YTYH191	190	25%	100	0.030	4000

Electrical Specifications – High Speed					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB02YMQS060	6	25%	100	0.08	300
FB02YMQS100	10	25%	100	0.1	300
FB02YMQS220	22	25%	100	0.25	300
FB02YMQS260	26	25%	100	0.25	300
FB02YMQS300	30	25%	100	0.25	300
FB02YMQS400	40	25%	100	0.25	350
FB02YMQS750	75	25%	100	0.3	300

**Electrical Specifications – High Speed**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB02YQS800	80	25%	100	0.3	300
FB02YQS101	100	25%	100	0.4	300
FB02YQS121	120	25%	100	0.4	300
FB02YQS221	220	25%	100	0.6	200

**Electrical Specifications – High Speed**

Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB03YQS060	6	25%	100	0.05	500
FB03YQS070	7	25%	100	0.05	400
FB03YQS100	10	25%	100	0.07	400
FB03YQS190	19	25%	100	0.2	300
FB03YQS200	20	25%	100	0.2	300
FB03YQS220	22	25%	100	0.2	300
FB03YQS300	30	25%	100	0.2	300
FB03YQS400	40	25%	100	0.2	300
FB03YQS470	47	25%	100	0.2	300
FB03YQS500	50	25%	100	0.25	300
FB03YQS600	60	25%	100	0.25	300
FB03YQS680	68	25%	100	0.25	300
FB03YQS700	70	25%	100	0.25	300
FB03YQS750	75	25%	100	0.25	300
FB03YQS800	80	25%	100	0.25	300
FB03YQS101	100	25%	100	0.3	300
FB03YQS121	120	25%	100	0.3	300
FB03YQS131	130	25%	100	0.3	300
FB03YQS141	140	25%	100	0.3	300
FB03YQS151	150	25%	100	0.3	200
FB03YQS161	160	25%	100	0.3	200
FB03YQS181	180	25%	100	0.35	200
FB03YQS201	200	25%	100	0.35	200
FB03YQS221	220	25%	100	0.35	200
FB03YQS241	240	25%	100	0.35	200
FB03YQS301	300	25%	100	0.4	200
FB03YQS401	400	25%	100	0.5	200
FB03YQS421	420	25%	100	0.5	200
FB03YQS471	470	25%	100	0.5	200
FB03YQS481	480	25%	100	0.5	200
FB03YQS601	600	25%	100	0.5	200
FB03YQS102	1000	25%	100	0.6	100
FB03YQS122	1200	25%	100	0.6	100
FB03YQS152	1500	25%	100	0.7	100
FB03YQS182	1800	25%	100	0.8	100
FB03YQS222	2200	25%	100	1	50
FB03YQS252	2500	25%	100	1.5	50

**Electrical Specifications – High Speed**

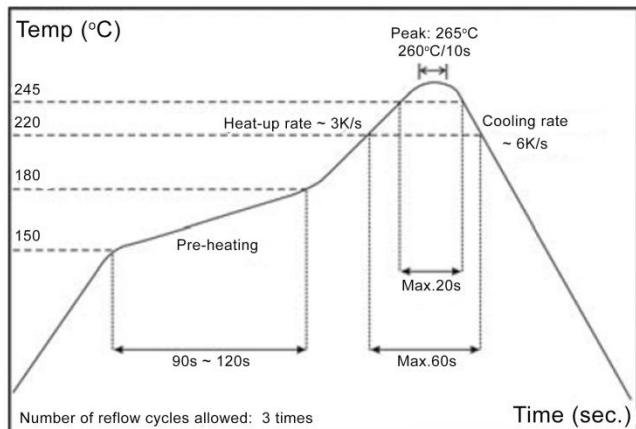
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB05YTS050	5	25%	100	0.07	800
FB05YTS060	6	25%	100	0.07	800
FB05YTS070	7	25%	100	0.1	700
FB05YTS110	11	25%	100	0.1	700
FB05YTS260	26	25%	100	0.15	600
FB05YTS300	30	25%	100	0.15	600
FB05YTS320	32	25%	100	0.15	600
FB05YTS400	40	25%	100	0.15	500
FB05YTS600	60	25%	100	0.15	500
FB05YTS700	70	25%	100	0.15	500
FB05YTS750	75	25%	100	0.15	500
FB05YTS900	90	25%	100	0.15	500
FB05YTS101	100	25%	100	0.2	400
FB05YTS121	120	25%	100	0.2	400
FB05YTS151	150	25%	100	0.2	400
FB05YTS171	170	25%	100	0.3	400
FB05YTS201	200	25%	100	0.3	300
FB05YTS221	220	25%	100	0.3	300
FB05YTS241	240	25%	100	0.3	300
FB05YTS301	300	25%	100	0.3	300
FB05YTS401	400	25%	100	0.3	300
FB05YTS421	420	25%	100	0.3	300
FB05YTS471	470	25%	100	0.35	200
FB05YTS501	500	25%	100	0.35	200
FB05YTS601	600	25%	100	0.35	200
FB05YTS751	750	25%	100	0.4	200
FB05YTS102	1000	25%	100	0.4	200
FB05YTS122	1200	25%	100	0.45	200
FB05YTS152	1500	25%	100	0.45	200
FB05YTS202	2000	25%	100	0.5	200
FB05YTS222	2200	25%	100	0.5	200
FB05YTS252	2500	25%	100	0.6	200
FB05YTS272	2700	25%	100	0.6	200

**Electrical Specifications – High Speed**

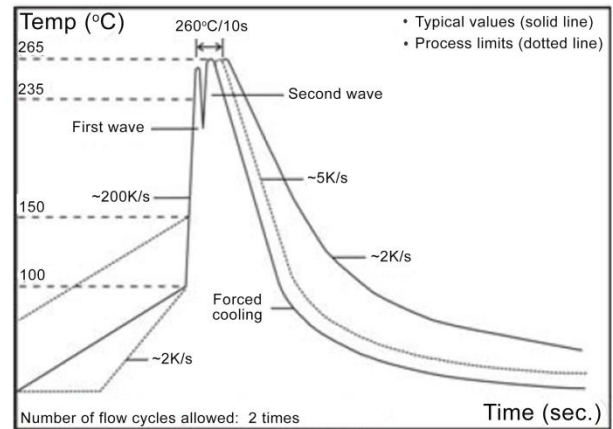
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB04YTS150	15	25%	100	0.15	600
FB04YTS170	17	25%	100	0.15	600
FB04YTS190	19	25%	100	0.15	600
FB04YTS300	30	25%	100	0.15	600
FB04YTS320	32	25%	100	0.15	600
FB04YTS500	50	25%	100	0.15	500
FB04YTS600	60	25%	100	0.15	500
FB04YTS800	80	25%	100	0.15	500
FB04YTS900	90	25%	100	0.15	500
FB04YTS121	120	25%	100	0.2	400
FB04YTS151	150	25%	100	0.2	400
FB04YTS201	200	25%	100	0.25	300
FB04YTS221	220	25%	100	0.3	300

Electrical Specifications – High Speed					
Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DCR (Ω) max.	Rated Current (mA) max.
FB04YTQS301	300	25%	100	0.3	300
FB04YTQS351	350	25%	100	0.3	300
FB04YTQS401	400	25%	100	0.3	300
FB04YTQS601	600	25%	100	0.35	300
FB04YTQS102	1000	25%	100	0.4	200
FB04YTQS122	1200	25%	100	0.4	200
FB04YTQS152	1500	25%	100	0.45	200

**Soldering Conditions:**



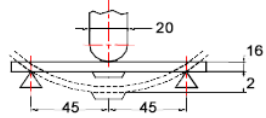

IR Reflow Soldering



Wave Soldering (Flow Soldering)

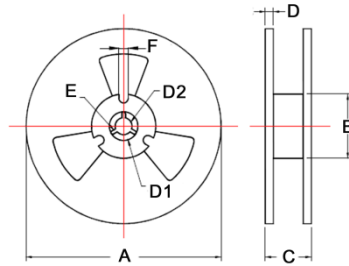
- (1) Time of IR reflow soldering at maximum temperature point 260°C: 10 seconds
- (2) Time of wave soldering at maximum temperature point 260°C: 10 seconds
- (3) Time of soldering iron at maximum temperature point 410°C: 5 seconds

Environmental Specifications - General		
Item	Specification	Test Method
Impedance	Refer to specific Electrical Specification	HP4291B
DCR		Agilent 34401A

Performance Characteristics		
Item	Specification	Test Condition / Test Method
Flexure Strength	The forces applied on the right conditions must not damage the terminal electrode and the ferrite	Test device shall be soldered on the substrate Substrate dimension: 100x40x1.6mm Deflection: 2 mm Keeping time: 30 seconds For 0402, substrate dimension is 100x40x0.8mm 
Vibration		Test device shall be soldered on the substrate Oscillation frequency: 10 to 55 to 10Hz for 1 minute Amplitude: 1.5mm Time: 2 hours for each axis (X,Y&Z). Total of 6 hours
Resistance to Soldering Heat	Appearance: No damage More than 75% of the terminal electrode should be covered with solder. Impedance: within $\pm 30\%$ of initial value	Pre-heating: 150°C, 1 minute Solder temperature: 260 $\pm$ 5°C Immersion time: 10 $\pm$ 1 seconds
Solderability	The electrodes shall be at least 90% covered with new solder coating	Pre-heating: 150°C, 1 minute Solder temperature: 245 $\pm$ 5°C Immersion time: 4 $\pm$ 1 seconds
Terminal Strength Test	02 series: $\geq 0.2$ Kg 03 series: $\geq 0.5$ Kg 05 series: $\geq 1$ Kg other series: $\geq 0.2$ Kg	Test device shall be soldered on the substrate 
Temperature Cycle	Appearance: No damage Impedance: within $\pm 30\%$ of initial value	One cycle: Step 1: -55 $\pm$ 3°C for 30 minutes Step 2: 25 $\pm$ 2°C for 3 minutes Step 3: 125 $\pm$ 3°C for 30 minutes Step 4: 25 $\pm$ 2°C for 3 minutes Total: 100 cycles Measured after exposure in the room condition for 24 hours
Humidity Resistance		Temperature 40 $\pm$ 2°C Relative Humidity: 90~95% Time: 1000 hours Measured after exposure in the room condition for 24 hours
High Temperature Resistance		Temperature 125 $\pm$ 3°C Relative Humidity: 0% Applied Current: Rated Current Time 1000 hours Measured after exposure in the room condition for 24 hours
Low Temperature Resistance		Temperature: -55 $\pm$ 3°C Relative Humidity: 0 Time: 1000 hours Measured after exposure in the room condition for 24 hours

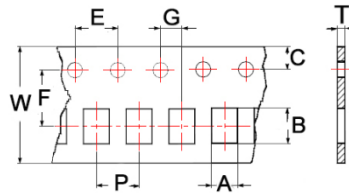
Operating temperature: -55°C ~ 125°C  
 Storage temperature: 25  $\pm$  3°C . Humidity < 80% RH

**Reel Specifications**



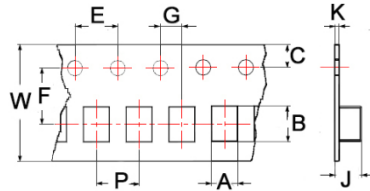
Type/Code	A	B	C	D	D1	D2	E	F	Unit
FB02	7.008 ± 0.079	2.362 ± 0.039	0.394 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	10.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB03	7.008 ± 0.079	2.362 ± 0.039	0.394 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	10.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB05	7.008 ± 0.079	2.362 ± 0.039	0.394 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	10.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB04	7.008 ± 0.079	2.362 ± 0.039	0.394 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	10.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB10	7.008 ± 0.079	2.362 ± 0.039	0.394 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	10.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB08	7.008 ± 0.079	2.362 ± 0.039	0.551 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	14.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm
FB12	7.008 ± 0.079	2.362 ± 0.039	0.551 ± 0.039	0.079 ± 0.020	0.827 ± 0.031	0.512 ± 0.020	0.039	0.079 ± 0.020	Inches
	178.00 ± 2.00	60.00 ± 1.00	14.00 ± 1.00	2.00 ± 0.50	21.00 ± 0.80	13.00 ± 0.50	1.00	2.00 ± 0.50	mm

**Paper Tape Specifications**



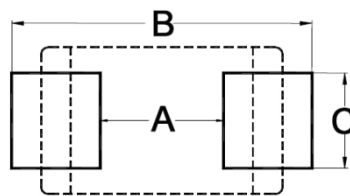
Type/Code	A	B	C	E	F	Unit
FB02	0.026 ± 0.004	0.045 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	0.65 ± 0.10	1.15 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
FB03	0.043 ± 0.004	0.073 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	1.10 ± 0.10	1.85 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
FB05	0.062 ± 0.004	0.095 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	1.58 ± 0.10	2.42 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
Type/Code	G	P	W	T	Unit	
FB02	0.079 ± 0.002	0.079 ± 0.004	0.315 ± 0.008	0.028 ± 0.002	Inches	
	2.00 ± 0.05	2.00 ± 0.10	8.00 ± 0.20	0.70 ± 0.05	mm	
FB03	0.079 ± 0.002	0.157 ± 0.004	0.315 ± 0.008	0.037 ± 0.002	Inches	
	2.00 ± 0.05	4.00 ± 0.10	8.00 ± 0.20	0.95 ± 0.05	mm	
FB05	0.079 ± 0.002	0.157 ± 0.004	0.315 ± 0.008	0.037 ± 0.002	Inches	
	2.00 ± 0.05	4.00 ± 0.10	8.00 ± 0.20	0.95 ± 0.05	mm	

**Plastic Tape Specifications**



Type/Code	A	B	C	E	F	Unit
FB04	0.074 ± 0.004	0.138 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	1.88 ± 0.10	3.50 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
FB06	0.074 ± 0.004	0.143 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	1.88 ± 0.10	3.64 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
FB10	0.109 ± 0.004	0.135 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.138 ± 0.002	Inches
	2.77 ± 0.10	3.42 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	3.50 ± 0.05	mm
FB08	0.074 ± 0.004	0.195 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.217 ± 0.002	Inches
	1.88 ± 0.10	4.95 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	5.50 ± 0.05	mm
FB12	0.144 ± 0.004	0.195 ± 0.004	0.069 ± 0.004	0.157 ± 0.004	0.217 ± 0.002	Inches
	3.66 ± 0.10	4.95 ± 0.10	1.75 ± 0.10	4.00 ± 0.10	5.50 ± 0.05	mm
Type/Code	G	P	W	J	K	Unit
FB04	0.079 ± 0.002	0.157 ± 0.004	0.315 ± 0.008	0.050 ± 0.002	0.008 ± 0.002	Inches
	2.00 ± 0.05	4.00 ± 0.10	8.00 ± 0.20	1.27 ± 0.05	0.20 ± 0.05	mm
FB06	0.079 ± 0.002	0.157 ± 0.004	0.315 ± 0.008	0.075 ± 0.002	0.008 ± 0.002	Inches
	2.00 ± 0.05	4.00 ± 0.10	8.00 ± 0.20	1.90 ± 0.05	0.20 ± 0.05	mm
FB10	0.079 ± 0.002	0.157 ± 0.004	0.315 ± 0.008	0.065 ± 0.002	0.008 ± 0.002	Inches
	2.00 ± 0.05	4.00 ± 0.10	8.00 ± 0.20	1.65 ± 0.05	0.20 ± 0.05	mm
FB08	0.079 ± 0.002	0.157 ± 0.004	0.472 ± 0.008	0.075 ± 0.002	0.012 ± 0.002	Inches
	2.00 ± 0.05	4.00 ± 0.10	12.00 ± 0.20	1.90 ± 0.05	0.30 ± 0.05	mm
FB12	0.079 ± 0.002	0.315 ± 0.004	0.472 ± 0.008	0.073 ± 0.002	0.012 ± 0.002	Inches
	2.00 ± 0.05	8.00 ± 0.10	12.00 ± 0.20	1.85 ± 0.05	0.30 ± 0.05	mm

**Recommended Pad Layouts**



Type/Code	A	B	C	Unit
FB02	0.016	0.047 ~ 0.055	0.016	inches
	0.40	1.20 ~ 1.40	0.40	mm
FB03	0.031	0.094 ~ 0.134	0.024	inches
	0.80	2.40 ~ 3.40	0.60	mm
FB05	0.047	0.118 ~ 0.157	0.039	inches
	1.20	3.00 ~ 4.00	1.00	mm
FB04	0.079	0.165 ~ 0.205	0.047	inches
	2.00	4.20 ~ 5.20	1.20	mm
FB06	0.079	0.165 ~ 0.205	0.047	inches
	2.00	4.20 ~ 5.20	1.20	mm



Recommended Pad Layouts (cont.)				
Type/Code	A	B	C	Unit
FB10	0.079	0.217 ~ 0.256	0.071	inches
	2.00	5.50 ~ 6.50	1.80	mm
FB08	0.118	0.217 ~ 0.256	0.047	inches
	3.00	5.50 ~ 6.50	1.20	mm
FB12	0.118	0.217 ~ 0.256	0.094	inches
	3.00	5.50 ~ 6.50	2.40	mm

## RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status						
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
FB	Multilayer Ferrite Chip Bead Inductor	SMD	YES	100% Matte Sn	Always	Always

## "Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

## Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

## Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

**How to Order**



Product Series	
Code	Description
FB	Ferrite Bead

Size	
Code	Size
02	0402
03	0603
05	0805
04	1204
06	1206
10	1210
08	1808
12	1812

Tolerance	
Code	Tol
Y	25%

Packaging			
Code	Description	Code	Quantity
T	Paper Tape	02	10000
		03	4000
		05	
	Plastic Tape	04	3000
		06	
		10	2000
		08	
		12	1000

Material	
Code	Type
Y	ui : 200 (for General and High Current Types)
Q	ui : 75 (for High Speed Type Only)

Current Type	
Code	Type
N	General
H	High Current
S	High Speed

Impedance	
Code	Description
060	6 ohm
110	11 ohm
121	120 ohm
102	1 Kohm