

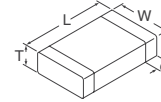
# TAIYO YUDEN

## Multilayer Ferrite Chip Beads

**Features:** • Internal silver printed layer creates a closed circuit which acts as a magnetic shield minimizing heat generation and crosstalk • No need for grounding provides greater circuit design flexibility • Several material types and a broad range of impedance values provide noise countermeasures for various applications  
**Applications:** • High frequency noise countermeasure in personal computers, digital cameras and other information system products • For use on digital product clock lines and general signal lines • Radiated noise suppression in computer or printer interfaces and harness connectors • Noise suppression in video and other AV products • Prevents interference between circuits in cellular phones • Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supply lines where downsizing of components is needed

**Taiyo Yuden's Type Breakout:**

- **HS:** Suppresses the XL component. Helps stop the reduction of the wave-form integrity. (digital wave-form overshoot, etc.)
- **HM:** Increases the Z characteristic sharply above 20MHz and is applicable for radiated noise in the 100MHz - 300MHz range. Especially effective on video signal lines.
- **LL:** Designed as a noise countermeasure for the 200MHz - 500MHz range where the rise of the Z component is in the high frequency area.
- **LM:** Intended for noise suppression around 200MHz. Effectively increases attenuation.
- **HW:** The best material in the BK Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
- **TM:** Low DC resistance HM version.
- **TS:** Reduced DC resistance version for noise countermeasures around LSI power supplies.



Size Code	Dimensions - mm			
	L	W	e	T
0201	0.60 ±0.03	0.30 ±0.03	0.15 ±0.05	0.3
0402	1.00 ±0.05	0.50 ±0.05	0.25 ±0.10	0.5
0603	1.6 ±0.15	0.8 ±0.15	0.3 ±0.2	0.8
0805 (≤ 1500Ω)	2.0 ±0.2	1.25 ±0.2	0.5 ±0.3	0.85
0805 (≥ 1800Ω)	2.0 +0.3/-0.1	1.25 ±0.2	0.5 ±0.3	0.85

E

Size Code	Type	Impedance (Ω) @100MHz	Max. Rated Curr. (A)	Max. DC Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel#		Taiyo Yuden Part No.	
						1	10	Qty.	Pricing		
<b>BK Series</b>											
0201	HS	33	0.5	0.070	587-1828-1-ND	.32	2.39	15,000	28.42/M	BK0603HS330-T	
	LL	47	0.15	0.070	587-1834-1-ND	.32	2.39	15,000	28.42/M	BK0603LL470-T	
	HS	80	0.2	0.40	587-1830-1-ND	.32	2.39	15,000	28.42/M	BK0603HS800-T	
	LL	80	0.1	1.30	587-2198-1-ND	.26	1.92	15,000	22.87/M	BK0603LL800-T	
	HM	120	0.2	0.40	587-1821-1-ND	.26	1.92	—	—	BK0603HM121-T	
	HM	240	0.2	0.80	587-1822-1-ND	.32	2.39	15,000	28.42/M	BK0603HM241-T	
	HS	240	0.2	0.65	587-1827-1-ND	.32	2.39	15,000	28.42/M	BK0603HS241-T	
	HM	470	0.1	1.05	587-1823-1-ND	.32	2.39	15,000	28.42/M	BK0603HM471-T	
	HS	600	0.15	1.20	587-1829-1-ND	.32	2.39	15,000	28.42/M	BK0603HS601-T	
	0402	LL	5	0.6	0.08	587-2199-1-ND	.21	1.39	10,000	13.86/M	BK1005LL050-T
HS		10	1.0	0.03	587-1840-1-ND†	.21	1.39	10,000	13.86/M	BK1005HS100-T	
LL		10	0.5	0.11	587-1853-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL100-T	
LL		22	0.4	0.18	587-1856-1-ND†	.17	1.11	—	—	BK1005LL220-T	
HS		33	0.7	0.06	587-1844-1-ND†	.21	1.39	10,000	13.86/M	BK1005HS330-T	
LL		33	0.4	0.25	587-1858-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL330-T	
LL		47	0.35	0.33	587-1859-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL470-T	
LL		68	0.4	0.31	587-1860-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL680-T	
HS		80	0.7	0.1	587-1820-1-ND	.21	1.39	10,000	13.86/M	BK1005HS800-T	
HM		120	0.3	0.18	587-1836-1-ND†	.21	1.39	10,000	13.86/M	BK1005HM121-T	
0603	HS	120	0.5	0.2	587-1842-1-ND†	.21	1.39	10,000	13.86/M	BK1005HS121-T	
	HW	120	0.45	0.24	587-1848-1-ND†	.21	1.39	10,000	13.86/M	BK1005HW121-T	
	LL	120	0.35	0.45	587-1854-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL121-T	
	LL	180	0.3	0.5	587-1855-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL181-T	
	HM	240	0.3	0.3	587-1837-1-ND†	.21	1.39	10,000	13.86/M	BK1005HM241-T	
	HS	240	0.4	0.3	587-1843-1-ND†	.21	1.39	10,000	13.86/M	BK1005HS241-T	
	LL	240	0.25	0.7	587-1857-1-ND†	.21	1.39	10,000	13.86/M	BK1005LL241-T	
	HS	430	0.35	0.45	587-1845-1-ND	.17	1.11	—	—	BK1005HS431-T	
	HW	430	0.35	0.5	587-1850-1-ND†	.21	1.39	10,000	13.86/M	BK1005HW431-T	
	HM	600	0.25	0.5	587-1839-1-ND†	.21	1.39	10,000	13.86/M	BK1005HM601-T	
0805	HS	600	0.3	0.55	587-1846-1-ND†	.21	1.39	10,000	13.86/M	BK1005HS601-T	
	HW	600	0.3	0.6	587-1851-1-ND†	.21	1.39	10,000	13.86/M	BK1005HW601-T	
	HM	1,000	0.15	0.7	587-1835-1-ND†	.21	1.39	10,000	13.86/M	BK1005HM102-T	
	HS	1,000	0.3	0.58	587-1841-1-ND	.21	1.39	10,000	13.86/M	BK1005HS102-T	
	LM	1,800	0.12	0.9	587-1861-1-ND	.21	1.39	10,000	13.86/M	BK1005LM182-T	
	HS	22	1.5	0.05	587-1869-1-ND	.23	1.52	4,000	16.64/M	BK1608HS220-T	
	LL	30	0.5	0.2	587-1883-1-ND	.23	1.52	4,000	16.64/M	BK1608LL300-T	
	HS	33	1.2	0.08	587-1871-1-ND	.23	1.52	4,000	16.64/M	BK1608HS330-T	
	HS	47	0.9	0.1	587-1872-1-ND	.23	1.52	4,000	16.64/M	BK1608HS470-T	
	HS	60	0.8	0.1	587-1873-1-ND	.23	1.52	4,000	16.64/M	BK1608HS600-T	
0603	LL	68	0.3	0.35	587-1889-1-ND	.23	1.52	4,000	16.64/M	BK1608LL680-T	
	HS	80	0.6	0.1	587-1875-1-ND	.23	1.52	4,000	16.64/M	BK1608HS800-T	
	HM	120	0.35	0.2	587-1863-1-ND	.23	1.52	4,000	16.64/M	BK1608HM121-T	
	HS	120	0.5	0.18	587-1868-1-ND	.23	1.52	4,000	16.64/M	BK1608HS121-T	
	HW	120	0.6	0.15	587-1876-1-ND	.23	1.52	4,000	16.64/M	BK1608HW121-T	
	LL	120	0.3	0.5	587-1880-1-ND	.23	1.52	4,000	16.64/M	BK1608LL121-T	
	LL	180	0.25	0.65	587-1881-1-ND	.23	1.52	4,000	16.64/M	BK1608LL181-T	
	HS	240	0.4	0.25	587-1870-1-ND	.23	1.52	4,000	16.64/M	BK1608HS241-T	
	HW	240	0.45	0.25	587-1877-1-ND	.23	1.52	4,000	16.64/M	BK1608HW241-T	
	LL	240	0.25	0.8	587-1882-1-ND	.23	1.52	4,000	16.64/M	BK1608LL241-T	
0805	HW	430	0.4	0.3	587-1878-1-ND	.23	1.52	4,000	16.64/M	BK1608HW431-T	
	HM	470	0.25	0.45	587-1865-1-ND	.23	1.52	4,000	16.64/M	BK1608HM471-T	
	HM	600	0.25	0.6	587-1866-1-ND	.23	1.52	4,000	16.64/M	BK1608HM601-T	
	HS	600	0.35	0.45	587-1874-1-ND	.23	1.52	4,000	16.64/M	BK1608HS601-T	
	HS	33	3.0	0.025	587-1926-1-ND	.23	1.52	4,000	16.64/M	BK1608HS330-T	
	HS	60	2.5	0.04	587-1928-1-ND	.23	1.52	4,000	16.64/M	BK1608HS600-T	
	HS	100	1.7	0.05	587-1922-1-ND	.23	1.52	4,000	16.64/M	BK1608HS101-T	
	HS	120	2.7	0.035	587-1923-1-ND	.23	1.52	4,000	16.64/M	BK1608HS121-T	
	HS	180	1.5	0.075	587-1924-1-ND	.23	1.52	4,000	16.64/M	BK1608HS181-T	
	HS	270	1.2	0.11	587-1925-1-ND	.23	1.52	4,000	16.64/M	BK1608HS271-T	
0805	HS	390	1.0	0.14	587-1927-1-ND	.23	1.52	4,000	16.64/M	BK1608HS391-T	
	HS	33	4.0	0.02	587-1931-1-ND	.21	1.56	4,000	20.79/M	BK2125HS330-T	
	HS	60	3.0	0.025	587-1932-1-ND	.21	1.56	4,000	20.79/M	BK2125HS600-T	
	HS	100	2.5	0.04	587-1929-1-ND	.21	1.56	4,000	20.79/M	BK2125HS101-T	
	HS	220	2.0	0.05	587-1930-1-ND	.21	1.56	4,000	20.79/M	BK2125HS221-T	
	HS	330	1.5	0.075	587-2485-1-ND	.21	1.56	4,000	20.79/M	BK2125HS331-T	
	<b>BKP Series</b>										
	0201	HS	22	1.0	0.065	587-2196-1-ND	.32	2.39	15,000	28.42/M	BK0603HS220-T
		HS	33	1.0	0.070	587-2197-1-ND	.32	2.39	15,000	28.42/M	BK0603HS330-T
	0402	HS	10	2.0	0.030	587-2416-1-ND	.21	1.39	10,000	13.86/M	BK1005HS100-T
HS		33	1.7	0.050	587-2419-1-ND	.21	1.39	10,000	13.86/M	BK1005HS330-T	
HS		68	1.5	0.075	587-2417-1-ND	.21	1.39	10,000	13.86/M	BK1005HS680-T	
HS		120	1.0	0.14	587-1921-1-ND	.21	1.39	10,000	13.86/M	BK1005HS121-T	
HM		120	1.1	0.12	587-2089-1-ND	.21	1.39	10,000	13.86/M	BK1005HM121-T	
TM		120	1.3	0.100	587-2420-1-ND	.21	1.39	10,000	13.86/M	BK1005TM121-T	
0603	HS	220	0.8	0.2	587-2088-1-ND	.21	1.39	10,000	13.86/M	BK1005HS221-T	
	HS	220	0.9	0.180	587-2418-1-ND	.21	1.39	10,000	13.86/M	BK1005HM221-T	
	HS	33	3.0	0.025	587-1926-1-ND	.23	1.52	4,000	16.64/M	BK1608HS330-T	
	HS	60	2.5	0.04	587-1928-1-ND	.23	1.52	4,000	16.64/M	BK1608HS600-T	
	HS	100	1.7	0.05	587-1922-1-ND	.23	1.52	4,000	16.64/M	BK1608HS101-T	
	HS	120	2.7	0.035	587-1923-1-ND	.23	1.52	4,000	16.64/M	BK1608HS121-T	
0805	HS	180	1.5	0.075	587-1924-1-ND	.23	1.52	4,000	16.64/M	BK1608HS181-T	
	HS	270	1.2	0.11	587-1925-1-ND	.23	1.52	4,000	16.64/M	BK1608HS271-T	
	HS	390	1.0	0.14	587-1927-1-ND	.23	1.52	4,000	16.64/M	BK1608HS391-T	
	HS	33	4.0	0.02	587-1931-1-ND	.21	1.56	4,000	20.79/M	BK2125HS330-T	
	HS	60	3.0	0.025	587-1932-1-ND	.21	1.56	4,000	20.79/M	BK2125HS600-T	
	HS	100	2.5	0.04	587-1929-1-ND	.21	1.56	4,000	20.79/M	BK2125HS101-T	

Size Code	Type	Impedance (Ω) @100MHz	Max. Rated Curr. (A)	Max. DC Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel#		Taiyo Yuden Part No.
						1	10	Qty.	Pricing	
0603	HW	600	0.3	0.4	587-1879-1-ND	.23	1.52	4,000	16.64/M	BK1608HW601-T
	TS	600	0.35	0.27	587-1897-1-ND	.23	1.52	4,000	16.64/M	BK1608TS601-T
	LL	680	0.15	1.0	587-1890-1-ND	.23	1.52	4,000	16.64/M	BK1608LL681-T
	LM	750	0.3	0.6	587-1894-1-ND	.23	1.52	4,000		