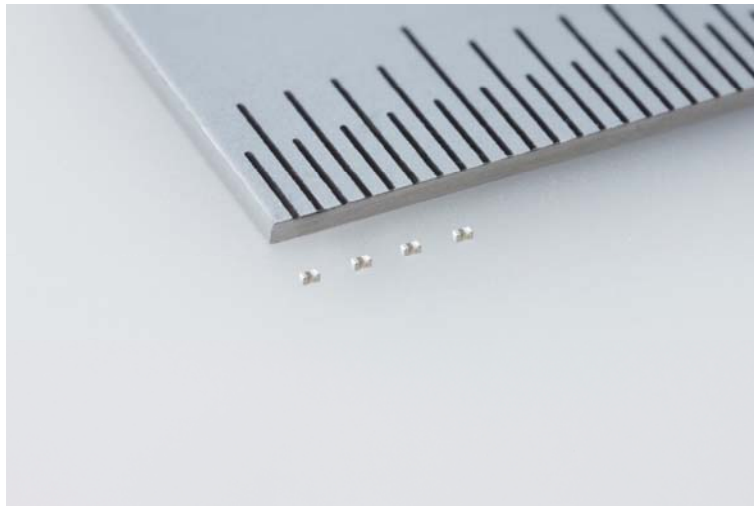


For immediate release

TAIYO YUDEN Announces the EIA 01005 Size High Frequency Multilayer High-Q Chip Inductor

An Extensive Product Line-up with the Industry Leading Q Value and Tight Tolerance



TOKYO, August 23, 2012– TAIYO YUDEN CO., LTD. today announced the commercial release of the HKQ0402 series of high frequency multilayer high-Q chip inductors (0.4 x 0.2 x 0.2mm) which achieve the industry leading Q value for the EIA 01005 size.

The new series can be used in impedance matching applications for the high frequency circuits used in high performance small mobile devices, such as smartphones, which are currently adopting the LTE next-generation communication standards and are becoming increasingly more multiband.

TAIYO YUDEN has reduced the size of the high frequency multilayer high-Q chip inductor down to the EIA 01005 size. At the same time, the HKQ0402 6N8 (with an inductance of 6.8nH) provides a Q value of 23 (typical) at 2.4GHz, making a significant improvement of roughly 30% over TAIYO YUDEN's conventional product HK0402 6N8 (which for reference has an equivalent Q value of 16). Along with the realization of the industry leading Q value, TAIYO YUDEN has commercially released 35 models all at once. This represents a large contribution to the continued miniaturization and high performance needed in the market to support small mobile devices typified by smartphones.

Production has been commenced at TAIYO YUDEN's domestic base in Japan, from August 2012, at a production rate of 10 million units per month, expanding to 50 million units within the current fiscal year which ends March 2013. The sample price is 15 yen per unit.

Technology Background

Small mobile devices like smartphones have many of the communication standards installed, such as GSM or 3G, and also LTE. There is a requirement that the impedance matching circuits corresponding to each communication standard be mounted. At the same time, numerous functions need to be housed inside small size and low profile casings. This has driven the demand higher for a transition of both high frequency multilayer, ceramic capacitors and high-Q chip inductors, to the EIA 01005 size. In addition, the DC resistance usually increases with inductors when they are miniaturized, and their Q value drops. As a result of these market conditions, the performance improvements needed for high frequency circuits up to now were not sufficiently satisfied.

At TAIYO YUDEN, with the continuing sophistication of our proprietary technologies such as fine line forming technology, magnetic circuit simulation technology, and multilayer technology, and realizing the most suitable pattern formation, both an EIA 01005 size ultra-compact shape and the industry leading Q value has been achieved. TAIYO YUDEN has simultaneously released an extensive line-up, totaling 35 models, which all have inductance tolerances of very narrow deviation.

In the future, YAIYO YUDEN will remain committed to providing products that meet market needs. We will continue to expand its product line-up further, and focus our efforts, in particular, on the development of super high-end products.

The new series will be exhibited in the TAIYO YUDEN booth at “CEATEC JAPAN 2012” to be held at the Makuhari Messe (Mihama-ku, Chiba-City, Chiba Prefecture) from the 2nd of October of this year.

■ Applications

In impedance matching applications, for example, for the high frequency circuits of small mobile devices such as smartphones and tablet PCs.

The main characteristics of the EIA 01005 size high frequency multilayer high-Q chip inductor released this time are as follows (35 models):

Ordering code	Inductance [nH]	Tolerance	Q (typical) Frequency [Hz]					Self-resonant frequency [MHz]	DC resistance [Ω]	Rated current [mA]
			500M	800M	1.8G	2.0G	2.4G	min.	max.	max.
HKQ0402 0N5	0.5	±0.3nH ±0.2nH	10	13	21	22	26	10000	0.08	500
HKQ0402 0N6	0.6		11	14	23	24	28	10000	0.08	500
HKQ0402 0N7	0.7		10	13	21	22	25	10000	0.09	470
HKQ0402 0N8	0.8		12	15	25	26	30	10000	0.09	470
HKQ0402 0N9	0.9		12	15	25	26	30	10000	0.09	470
HKQ0402 1N0	1.0		12	15	25	27	30	10000	0.09	470
HKQ0402 1N1	1.1		12	15	24	26	30	10000	0.11	430
HKQ0402 1N2	1.2		12	15	24	26	29	10000	0.11	430
HKQ0402 1N3	1.3		11	14	24	26	29	10000	0.13	390
HKQ0402 1N5	1.5		11	13	23	25	28	10000	0.17	340
HKQ0402 1N6	1.6		10	13	20	22	24	10000	0.19	320
HKQ0402 1N8	1.8		11	13	21	23	26	10000	0.19	320
HKQ0402 2N0	2.0		10	13	21	23	25	10000	0.23	290
HKQ0402 2N2	2.2		10	13	21	22	24	9300	0.27	270
HKQ0402 2N4	2.4		10	13	21	22	25	8300	0.30	260
HKQ0402 2N7	2.7		10	13	21	22	24	8200	0.30	260
HKQ0402 3N0	3.0		10	13	20	21	23	8000	0.30	260
HKQ0402 3N3	3.3		10	13	20	21	23	6700	0.34	240
HKQ0402 3N6	3.6		11	14	21	22	24	6500	0.35	240
HKQ0402 3N9	3.9		11	14	21	23	25	6500	0.35	240
HKQ0402 4N3	4.3	±0.3nH	11	15	22	24	25	6200	0.37	230
HKQ0402 4N7	4.7		11	14	22	23	25	5400	0.42	220
HKQ0402 5N1	5.1		11	14	21	22	24	5400	0.68	170
HKQ0402 5N6	5.6		11	14	22	23	25	5400	0.69	170
HKQ0402 6N2	6.2	±5%	11	13	20	21	23	5400	0.91	150
HKQ0402 6N8	6.8		11	14	20	21	23	5400	0.91	150
HKQ0402 7N5	7.5		11	14	20	21	23	4700	0.93	150
HKQ0402 8N2	8.2		11	13	19	19	20	4300	0.97	140
HKQ0402 9N1	9.1		10	13	19	20	21	4300	0.97	140
HKQ0402 10N	10		11	13	19	19	19	4000	1.23	130
HKQ0402 12N	12		11	14	20	20	21	3800	1.23	130
HKQ0402 15N	15		11	14	18	18	17	3000	1.54	110
HKQ0402 18N	18		12	15	20	20	19	2800	1.69	110
HKQ0402 22N	22		11	13	15	14	11	2100	2.01	100
HKQ0402 27N	27		11	13	13	11	7	1700	2.24	90