

TOKO COILS

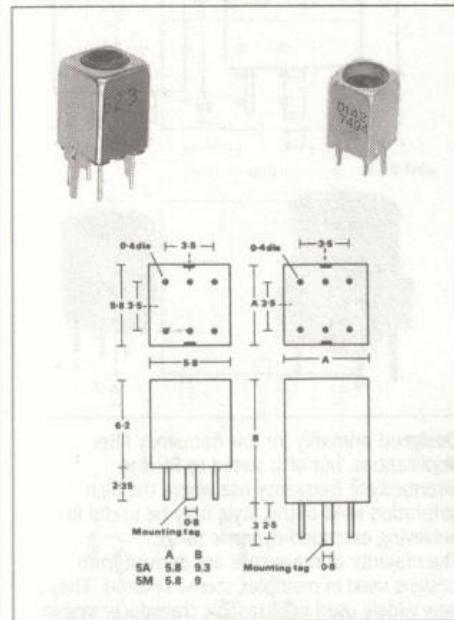
Cirkit are the UK distributor for Toko products. Toko are the world's largest manufacturer of wound components and the styles originated by them some 30 years ago now form the basis of virtually all the coils found inside radio, TV, communications and hi-fi equipment. Toko coils use only the best grade ferrite materials (generally from TDK) and their quality control is such that the failure rate is better than 1 per 1000. Cirkit are pleased to offer unrivalled support and information backup for Toko products, but please note that it is not possible to provide replacements for house-numbered components.

Note: most coil styles can be tuned +50% -35% of their nominal inductance value, though the Q and temperature co-efficient will vary at extremes of adjustment and excessive deviation from the nominal value should be avoided in critical applications.

Ferrite cores are not capable of passing substantial amounts of radio frequency energy: attempts to use these coils in RF power circuits may result in heating and unwanted distortion.

The fragile ferrite core used in these coils is easily fractured, and adjustments should be made only with brass or nylon trim tools, never with steel screwdrivers. Suitable trim tools are available - see **Tools** section.

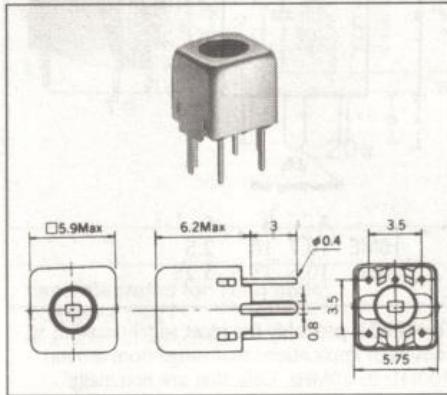
5mm COILS



This format is a scaled-down version of the 10EZ coil. The 5S style is a low-profile range, while the 5M is a taller component; both occupy the same PCB area. The 5A style is not available with an internal capacitor.

TYPE	STOCK NO.	PRICE
5MMC0124N	35-01242	£0.71
5MMC0273N	35-02732	£0.71
5SL0184R	35-01842	£0.71
5SPC0210Z	35-02102	£0.71
215NO839X	35-00839	£0.71
215PN0842Z	35-00842	£0.71
215PN0838X	35-00838	£0.71
215PN0850Z	35-00850	£0.71
5SVNR0837X	35-00837	£0.71
5SVNR0840Z	35-00840	£0.71
215PN0841HF	35-00841	£0.71
215PN0874N	35-00874	£0.71
215PN0875N	35-00875	£0.71
215PN0876N	35-00876	£0.71
210SN291Z	35-00291	£0.71
210SN171R	35-00171	£0.71
210SN172R	35-00172	£0.71
210SN173R	35-00173	£0.71

5K

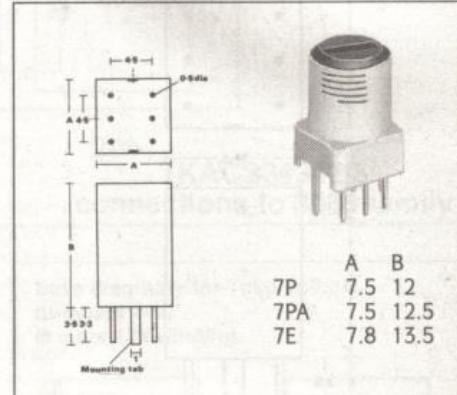


A further development of the 5mm coils, this range is particularly selected to give a continuous range of inductance values from 1µH to 47µH. Each coil has an adjustment range of approx ± 6% giving overlapping tuning between values, all have a single winding - base 1 connection, and a very high Q size ratio.

TYPE	Inductance (uH)	Q	STOCK NO.	PRICE
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332PN-3786VN	1.09	45	35-70109	0.71
332PN-3787BC	1.22	55	35-70122	0.71
332PN-3788BC	1.37	60	35-70137	0.71
332PN-3789VN	1.53	55	35-70153	0.71
332PN-3790BC	1.72	60	35-70172	0.71
332PN-3791BC	1.93	70	35-70193	0.71
332PN-3792VN	2.16	75	35-70216	0.71
332PN-3793VN	2.42	65	35-70242	0.71
332PN-3794VN	2.71	75	35-70271	0.71
332PN-3415VN	3.03	70	35-50303	0.71
332PN-3416VN	3.40	70	35-50340	0.71
332PN-3417VN	3.81	70	35-50381	0.71
332PN-3418VN	4.26	65	35-50426	0.71
332PN-3419VN	4.77	70	35-50477	0.71
332PN-3420VN	5.35	60	35-50535	0.71
332PN-3421VN	5.90	70	35-50590	0.71
332PN-3422VN	6.71	70	35-50671	0.71
332PN-3423VN	7.50	75	35-50750	0.71
332PN-3424VN	8.40	65	35-50840	0.71
332PN-3425VN	9.40	75	35-50940	0.71
332PN-3426VN	10.60	65	35-51060	0.71
332PN-3427VN	11.80	65	35-51180	0.71
332PN-3428VN	13.30	60	35-51330	0.71
332PN-3429VN	14.80	65	35-51480	0.71
332PN-3430VN	16.20	70	35-51620	0.71
332PN-3431VN	18.60	70	35-51860	0.71
332PN-3432VN	20.80	75	35-52080	0.71
332PN-3433VN	23.30	70	35-52330	0.71
332PN-3434VN	26.10	75	35-52610	0.71
332PN-3435VN	29.90	70	35-52990	0.71
332PN-3436VN	32.80	70	35-53280	0.71
332PN-3437VN	36.70	70	35-53670	0.71
332PN-3438VN	46.10	75	35-54160	0.71

7mm COILS



Circuit miniaturisation requires smaller components, represented by these 7mm format coils. Many listed below are equivalent to the 10mm range. The 7PA style is designed for LF applications, with a more substantial core occupying the space otherwise allotted to a tuning capacitor. The 7P style provides a selection of adjustable chokes with an adjustment range of approximately ± 35-25% yielding fully overlapping values from 2 to 500uH. The 7E style is best known in radio control receiver applications. The 7KN includes a capacitor in the range 5-100pF; the 7KC does not have an internal capacitor. The adjustment range of these styles is approximately ± 15%.

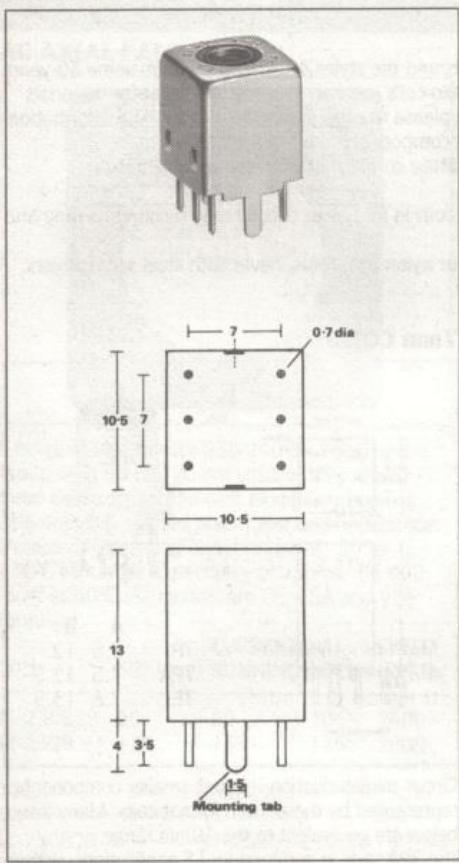
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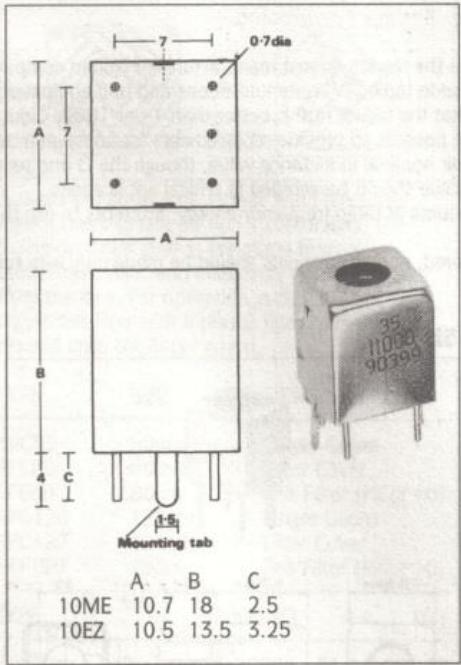
10K COILS



The most widely used coil in applications above 5MHz and below 70MHz. They use a spiral winding for low self capacitance and high Q, and a threaded slug adjuster. The range includes a number of 10.7MHz intermediate frequency transformers (which generally cover 9MHz as well), and IF transformers to match most types of ceramic and crystal filters. The adjustment range is approx. $\pm 30\text{-}20\%$ of the nominal value.

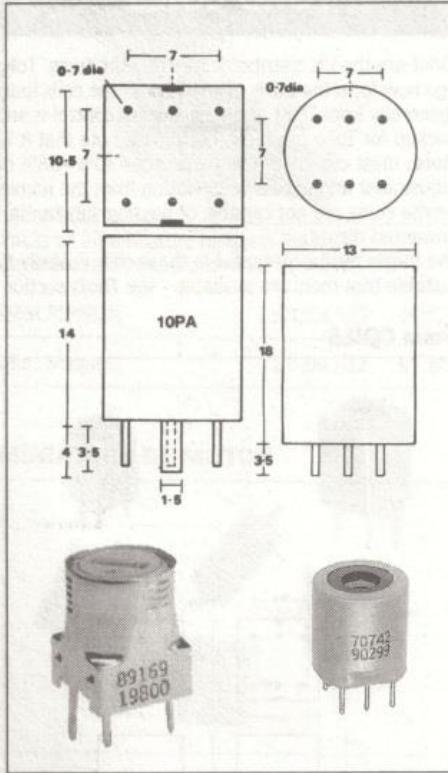
TYPE	STOCK NO.	PRICE
KANK3333R	35-33330	£0.47
KANK3334R	35-33340	£0.47
KANK3335R	35-33350	£0.47
KXNK3767EK	35-37670	£0.52
KANK3426R	35-34260	£0.52
KANK3337R	35-33370	£0.52
KANK3428R	35-34280	£0.52
KXNK3766EK	35-37660	£0.52
KACS4520A	35-45200	£0.52
KASCK3892A	35-38920	£0.52
KACSK3893A	35-38930	£0.52
KACSK3894A	35-38940	£0.52
KACS1506A	35-15060	£0.52
KAC6184A	35-61840	£0.52
KAC6400A	35-64000	£0.52
KACSK586HM	35-05860	£0.52
TKACS34342	35-43420	£0.52
TKACS34343	35-43430	£0.52
MKANK4174HM	35-41740	£0.52
KXNK4173A0	35-41730	£0.52
KXNSK4612BM	35-46120	£0.52
KXNSK4172EK	35-41720	£0.52
TKXNS22250N	35-22500	£0.52
TKXCA34732CON	35-47320	£0.52
MKANSK1731HM	35-17310	£0.52
KANSK1893HM	35-18930	£0.52
KACS934055P	35-34050	£0.52
KAC9339REV	35-93390	£0.52
TKANS32696A	35-26960	£0.52
TKANS32698	35-26980	£0.52
MKXCSK3464B	35-34640	£0.52
TKACS1612	35-16120	£0.52
TKXC33733BS	35-33733	£0.52
166NNF10264AG	35-10264	£0.71

10EZ COILS



The 10EZ is probably the most widely used of all coils, with applications that range from around 200kHz to 20MHz. Coils that are nominally designed for 455kHz If systems are easily tuned to 470kHz (and vice versa) although the Q may vary slightly causing the calculated impedance to be changes. The coil consists of a ferrite central bobbin with a threaded cup core held in an outer frame fixed to pin base. The adjustment range is approx. $\pm 30\text{-}20\%$ of the nominal value.

10PA/12VXA COILS

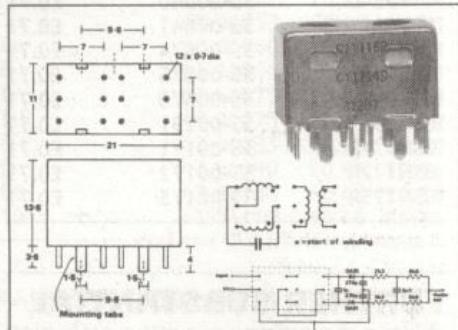


Designed primarily for low frequency filter applications, but also suited to RF and intermediate frequency use where the high saturation level of this style may be useful in achieving extended dynamic range.

The majority of these coils are derived from designs used in multiplex stereo systems. They are now widely used in ultrasonic transducer systems. The adjustment range of these styles is particularly wide, eg the CLN30569Z coil will tune to beyond 50mH.

TYPE	STOCK NO.	PRICE
719VXA8032	35-80230	£1.16
CAN1898HM	35-18980	£0.82
CAN1980BX	35-19800	£0.82
CAN1979A	35-19790	£0.82
CAN1896HM	35-18960	£0.82
CLNS30568Z	35-05680	£0.82
CLNS30569Z	35-05690	£0.82
CAN1A350EK	35-03500	£0.74
707VXA042YUK	35-70742	£0.94
707VXA043YUK	35-70743	£0.94

10WA, 10WF COILS



A double 10mm format using mutual inductive coupling and/or link coupling to provide the desired coupling factor.

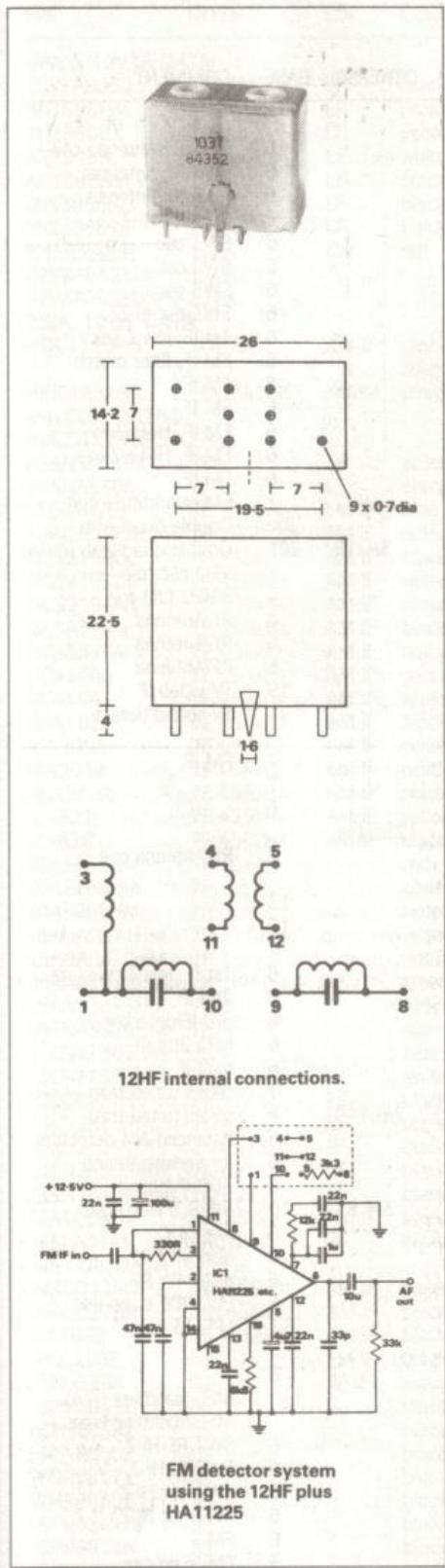
TYPE	STOCK NO.	PRICE
WFDC1115P/S	35-11155	£1.58
WRHC1A516/7	35-51675	£1.58

Telephone Sales



0992 448899

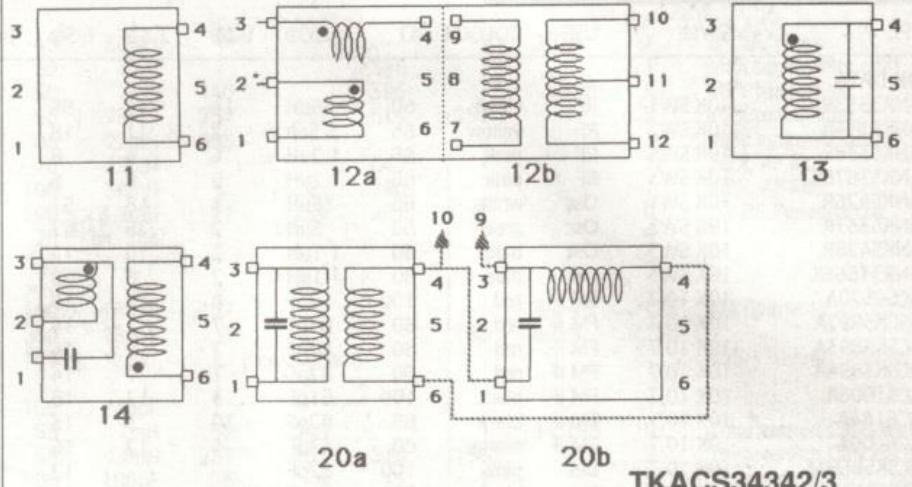
12HF DETECTOR ASSEMBLY



The 12HF is a large format double-tuned detector coil assembly with the following features:
The coupling is set for the best phase linearity over a very wide bandwidth (ie, slightly de-tuned signals will not be distorted).
The combination of high and Q and low distortion improves the recovered audio and signal-to-noise ratio in all quadrature detector systems. The 22uH feed choke is included in the screening can.
Temperature stability is greatly enhanced.

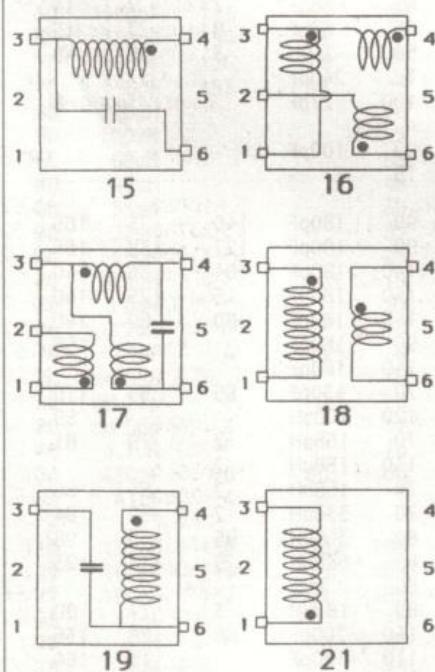
TYPE	STOCK NO.	PRICE
12HF Q228CCM-1037D	35-01037	£2.12

base diagrams for Toko coils: numbers 11-14,20.
● = start of winding.

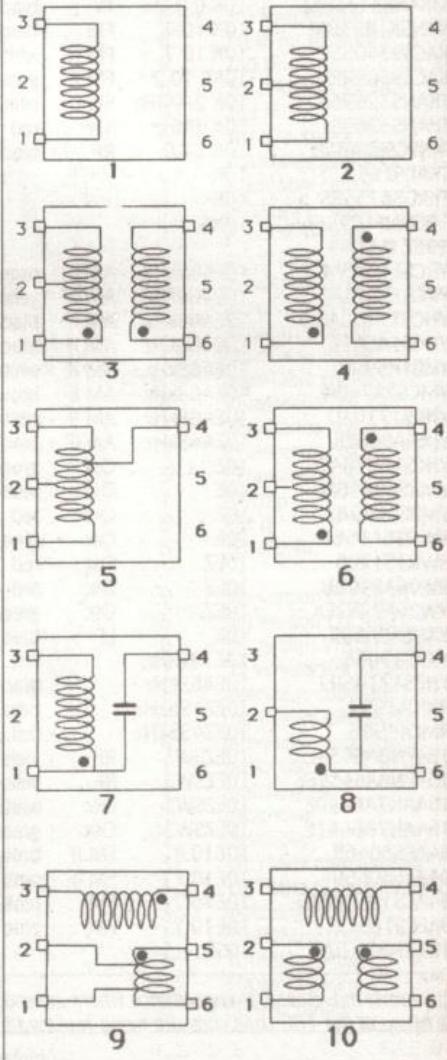


TKACS34342/3
connections to 3089 family

base diagrams for Toko coils:
numbers 15-21
● = start of winding.



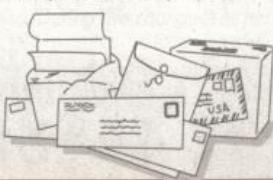
base diagrams for Toko coils:
numbers 1-10
● = start of winding.



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