

## IC code consists of the following elements:

1. If a foreign prototype has a one-letter or two-letter code before its digital (alphanumeric) number, then the corresponding two-letter code of JSC INTEGRAL is indicated before the digital number of the prototype:

IN XXXXX - for packaged digital ICs,

IW XXXXX - a backup code for packaged digital ICs,

IL XXXXX - for packaged analog and digital-to-analog (analog "output") ICs,

IZ XXXXX - for packageless ICs, where the first element is two letter symbols

denoting the brand name (code) of JSC INTEGRAL,

the second element is the alphanumeric symbol of the product in accordance with the prototype symbol.

<u>XX</u>	<u>XXXXXXXXXX</u>
!	!
!	!
!	!
!	! <u>prototype IC code</u>
!	
!	<u>brand name</u>

If a foreign analogue has a three-letter code before its digital (alphanumeric) number, then the corresponding two-letter code of JSC INTEGRAL is indicated before the digital number of the prototype IC with the addition of the third letter of the prototype letter code (for example, ILX) to it.

<u>XX + X</u>	<u>XXXXXXXXXX</u>
!	!
!	!
!	! <u>prototype IC code</u>
!	
!	<u>brand name</u>

# IC CODE SYSTEM

## Examples of codes:

Foreign prototype		
Prototype code	The principle of signal conversion in IC	JSC INTEGRAL IC code
MC74HC08AN LM311N TDA8362A MC74HC08AD MC74HC374AD CD4001BD TDA3654Q TLE4267G TLE4267S KS5199A	digital analog analog digital digital digital analog analog analog digital packageless	IN74HC08AN* IL311ANM* ILA8362ANS* IN74HC08AD* IN74HC374ADW* IW4001BD* ILA3654Q* ILE4267G* ILE4267S* IZ5199A

\* the letter at the end of the IC code is similar to the letter of the prototype and indicates the package type:

- N - for plastic DIP packages with inch pitch between the pins;
- NM - for plastic DIP packages with metric pitch between the pins;
- NS - for plastic DIP packages with reduced pitch (1.778 mm pitch);
- D - for plastic SO-packages (4<sub>-0.2</sub> mm package width);
- DW - for plastic 20, 24, 28-pin SO "wide" packages (7.6<sub>-0.2</sub> mm package width);
- Q - for plastic packages with pre-formed pins;
- G - for power plastic packages with pre-formed pins;
- S - for power plastic packages with unformed pins.

For 1554, 1594 series ICs with the Customer acceptance, the symbols "TMB" are included in the coding, indicating:

T - type of package (flat metal-ceramic);

B - designer (Belmicrosystems RDC of JSC INTEGRAL)

M - the city of the manufacturer (Minsk)

The letter A in the marking of the IC series IN74AC/ACTXXXXAN,AD indicates a scaled IC.

Other symbols:

A - plastic package with planar arrangement of pins on two or four sides or j-pins with the Customer acceptance;

M - metal-ceramic DIP package with Customer acceptance;

H - metal-ceramic package (micropackage or IC carrier) with the Customer acceptance;

КБ, IZ - packageless IC (p/l);

K, KP - plastic DIP package with metric pitch with QC acceptance;

KΦ - plastic package for surface mounting with QC acceptance;

ЭKP - plastic DIP package with 2.54 mm or 1.778 mm pitch with QC acceptance;

ЭKΦ - plastic package for surface mounting with 1.27 mm pitch;

KA - plastic four-sided package for surface mounting;

YMC - music synthesizer;

H/Y - packing standard

2121.28-C - package code according to GOST17467-88;

MS-011AB - package code according to according to JEDEC.