

TSGF12 - 8th TO 12th ORDER ANALOG FILTER

TSGF12 array offers the capability to integrate either one single from 8th to 12th order or 2 different filters whose sum of orders cannot exceed 12.

These 2 different filters can have either same clock or 2 different clock inputs.

The TSGF12 package versions are :

- 16 pin DIL : 1 filter + 2 Op-amps
- 16 pin DIL : 1 filter + 2 Op-amps
+ driving of output S/H
- 16 pin DIL : 2 filters + 1 Op-amp
+ 2 clock inputs.
- 18 pin DIL : 2 filters + 2 Op-amps
+ 1 clock input.
- 20 pin DIL : 2 filters + 2 Op-amps
+ 2 clock inputs.
- 20 pin DIL : 2 filters + 2 Op-amps
+ 2 clock inputs
+ driving of output S/H.

TSGF12 array are also available in SO wide package version (0.3 inch) : 18 and 24 pin versions.

In case of dual filter integration, the CLKSH pin operates only on the output of filter n° 1 (OUTPUT 1). In the same case, for the 16 pin version, only LVL2 pin is available : therefore user can only adjust the Output DC level of filter 2.

Clock divider :

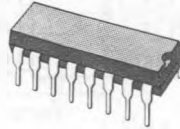
The number of dividers by 2 available on TSGF12 array is 8.

Therefore in case of dual filter on chip integration, there are 2 possibilities to use the clock divider :

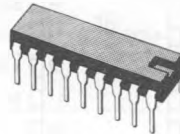
- if one filter does not require internal dividers, the 8 dividers by 2 are available for the second filter ;
- if the first filter requires n internal dividers, it remains only 7-n ones available for the second filter.

TSGF12 BLOCK DIAGRAM

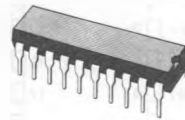
See figure 4 (E88TSGFSERIES-05)



P
DIP-16
(Plastic Package)

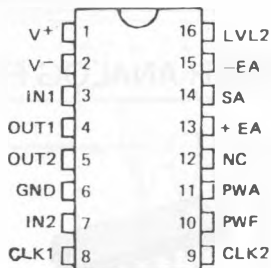


P SUFFIX
DIP-18
(Plastic Package)



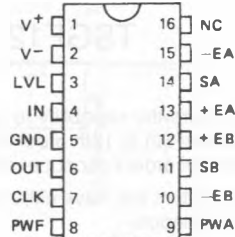
P
DIP-20
(Plastic Package)

PIN CONNECTIONS



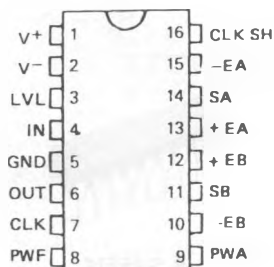
E88TSGF12-01

16 PINS : 2 filters
 + 1 OP - Amp
 + 2 Clock inputs.



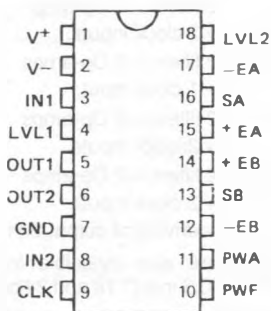
E88TSGF12-02

16 PINS : 1 filter
 + 2 OP - Amp
 Compatible with TSGF08



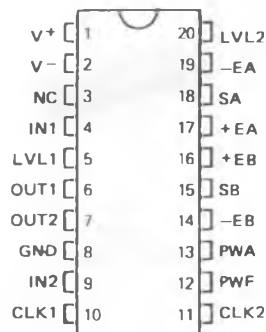
E88TSGF12-03

16 PINS : 1 filters
 + 2 OP - Amps
 + Driving of output S/H.



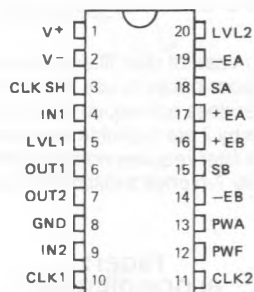
E88TSGF12-04

18 PINS : 2 filters
 + 1 OP - Amp
 + 1 Clock input.



E88TSGF12-05

20 PINS : 2 filters
 + 2 OP - Amps
 + 2 Clock inputs.

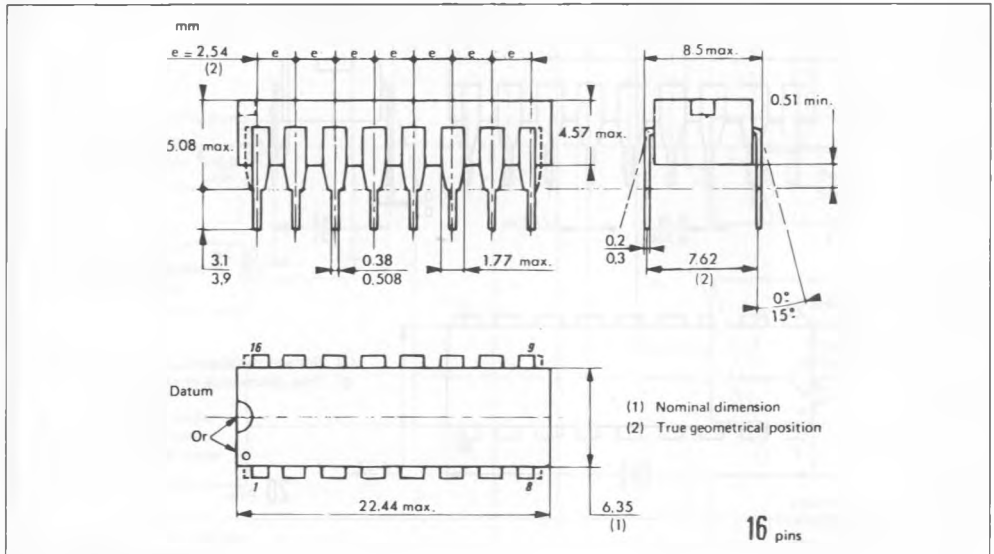


E88TSGF12-06

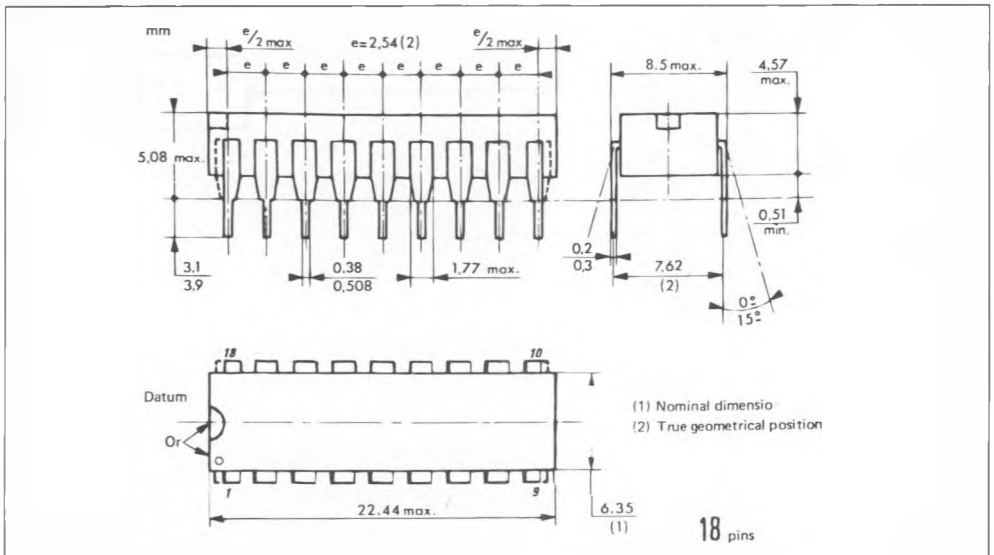
20 PINS : 2 filters
 + 2 OP - Amps
 + 2 Clock inputs
 + Driving of output S/H.

PACKAGE MECHANICAL DATA

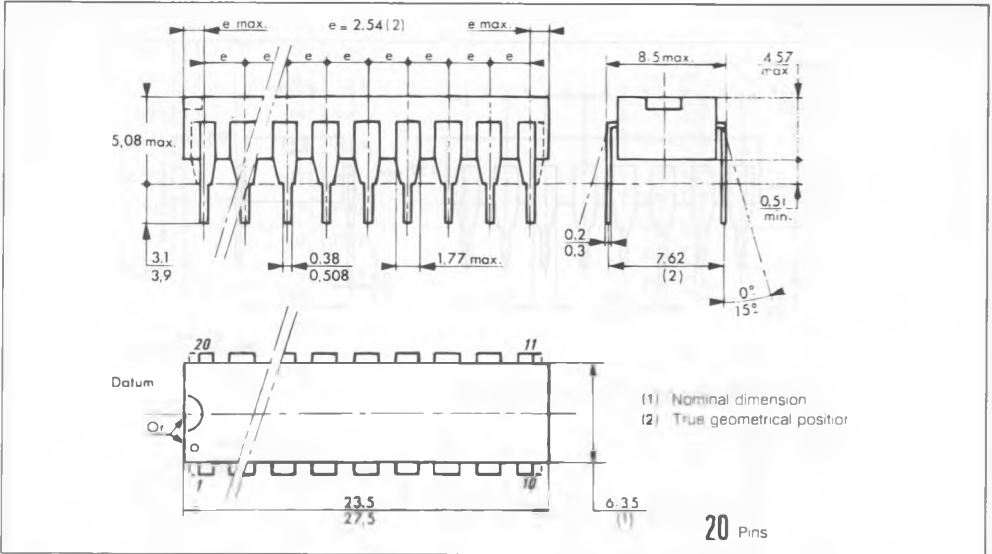
16 PINS - PLASTIC DIP



18 PINS - PLASTIC DIP



20 PINS - PLASTIC DIP



ORDER CODES

