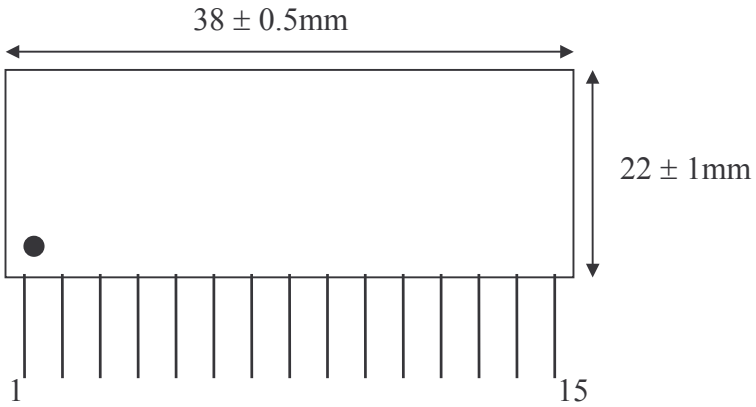
EURORAD

SHAPER MODULE SH1
IDENTIFICATION SHEET

TECHNICAL SPECIFICATIONS (please precise the chosen option on your order)

Supply:
Neg supply : V_{cc-} = -5V to -12V (17 mA)
Pos supply: V_{cc+} = +5V to +12V (17 mA)
Output polarity (for a positive step at the input): optional : non inverter or inverter
Maximum gain: optional : 20 to 2000
Filter type: optional : CR-RC^2 or CR^2-RC or CR^2-RC^2
Shaping time constant: optional : 200ns to 8000ns
Input impedance: 1KΩ
Output impedance: 50 Ω
Output range: V_{cc-} + 2V to V_{cc+} - 2V on 1KΩ
Maximum output current: ± 18mA

CONNECTOR : 15SIP100



Pin assignment:

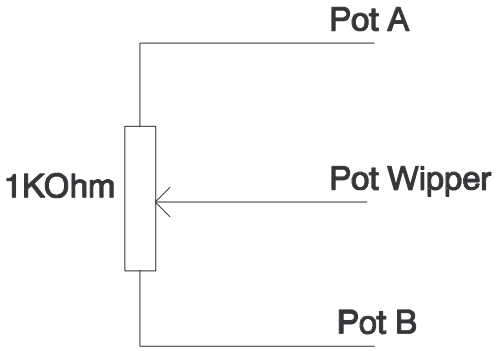
1: Input 1 (Main)
2: Input 2
3: Ground
4: V_{cc+}
5: V_{cc-}
6: NC
7: Pot A
8: Pot Wiper
9: Pot B, Ground
10: Ground
11: Ground
12: Ground
13: Ground
14: NC (Do not connect)
15: Output

SH1 BASIC CONFIGURATIONS

Pole zero:

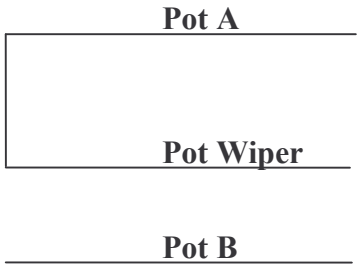
- Pole/zero cancellation is possible through Input 1 and Input 2 on demand.
- No pole/zero cancellation:

Gain setting:



Gain is settable between 0 and Gain maximum.

Fixed gain: Gain = gain maximum



Product reference :

To order your product, please use the codification defined as follow. The reference is composed of four fields : *output polarity maximum gain filter type shaping time*

FIELDS	Output polarity	Maximum gain	Filter type	Shaping time
VALUE	**I** : inverter **N** : no inverter	20 to 2000	**S** : CR-RC² **C** : CR²-RC **D** : CR²-RC²	200 to 8000ns

Example : a SH1 with a Negative output polarity : I
Maximum gain of 600
CR-RC² filter type : S
Shaping time of 1000ns

Will have the reference : I 600 S 1000