

# **SMAC SERIES**



Piezo acoustic components are more and more used in small portable equipment and as a critical alerting device. Reliability must be very high in the most difficult environmental circumstances, such as extreme and varying temperatures, vibrations, shocks, dust conditions, humid environment etc. The SMAC-25 buzzer, manufactured with over 30 years of experience in the field of piezo acoustic technology, is a very stable buzzer with a lifetime of more than 1000 hours in continuous use. In these small dimensions, the SMAC-25 is actually the best available piezo alarm for life supporting systems.



#### **ADVANTAGES & APPLICATIONS**

#### **ADVANTAGES:**

- Electronics included
- Rounded octagonal shape new design!
- PCB mounting (pin version)
- Shock, dust & waterproof (IP67)
- Produces a high reliable, clear and penetrating sound
- Light but solid construction
- Low power consumption
- Easily mountable
- Low cost compared to quality

#### **APPLICATIONS:**

- Alarms
- Monitoring & test equipment
- Trucks & automobiles
- Boats & airplanes
- Signalization & process control equipment
- Fire detectors
- Battery powered handheld devices
- Gas detectors
- Life support systems
- Control instrumentation & systems
- Intensive care systems

#### **SPECIFICATIONS**



Mode	el	Function	Sound pressure level (dB(A)(±2dB(A)	Frequency (Hz)(±15%)	Operating voltage (Vdc)	Operating DCcurrent(mA)
SMAC-	25	continuous	93.5	3350	5-16 Vdc	9.7
SMACI:	-25	intermittent*	93.5	3350	5-16 Vdc	9.7
SMAC-	25L	continuous	100	3350	5-35 Vdc	17
SMACT	-25	transducer	see graph	see graph	-	- /



Capacitance	Operating
(+/-30%) nF)	voltage (VAC pp)
20nF	0 to 30

Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Expected life time:	>1000 hours @ 21°C @ 12 Vdc (free air) mounted on print
Color:	grey, black
Terminals:	pins (tinned brass)
Case material:	PBT (UL rating: 94 HB
Weight:	7.8 - 8.5 g

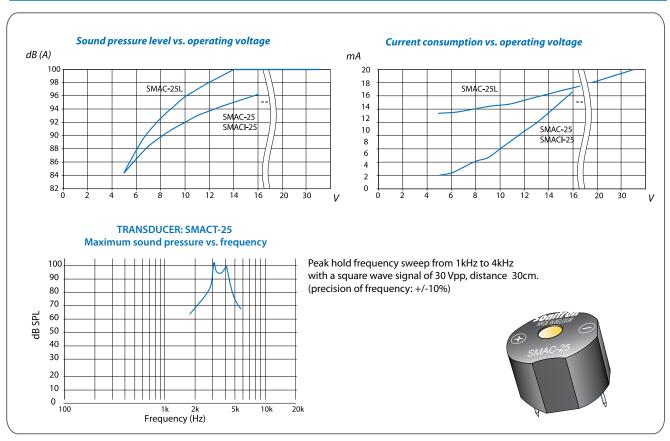
<sup>\*</sup> All measurements are made in free air @ 21°C @ 30 cm @ 12 Vdc.

The test buzzer is soldered on a PCB board with dimensions of 24 cm x 11 cm.

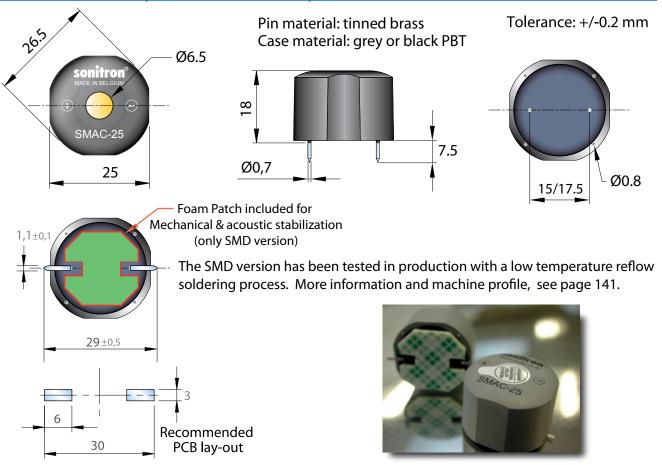
*2014* 73



## **ELECTRICAL PARAMETERS**



## **DIMENSIONS** (All dimensions are in mm)



2014 74



#### PRODUCT CODIFICATION

SMAC	-	25	L	P-S-W connections
Sonitron Multi Application Cup	Intermittent  T -  Transducer	Square diameter (mm)	Loud	P15: pin distance 15 mm P17.5: pin distance 17.5 mm S: SMD terminals W100: 2 wires length 10cm

## LIST OF AVAILABLE PRODUCT TYPES

SMAC-25-P15	SMACI-25-P15	SMAC-25L-P15	SMACT-25-P15
SMAC-25-P17.5	SMACI-25-P17.5	SMAC-25L-P17.5	SMACT-25-P17.5
SMAC-25-S	SMACI-25-S	SMAC-25L-S	SMACT-25-S
SMAC-25-W100	SMACI-25-W100	SMAC-25L-W100	SMACT-25-W100

#### **PRODUCT OPTIONS**

Option Code Description example

MC SMAC-25-P15-MC Acryl coating: The protective coating gives a complementary

assurance against smog. All Smac series buzzers are perfectly

waterproof (IP67) without the mentioned coating.

**Wash Tab** SMAC-25-P17.5 Recommended for automatic washing production process. +Wash Tab

The Wash Tab is upon the sound-emitting hole, avoiding

liquid penetration into the cavity.

TO BE REMOVED AFTER the washing process for good

sound output!!!

**FP21** SMACI-25-P15-**FP** Acoustic stabilization Foam Patch, easy to stick. For:

> SMAC(I)-25-P15 SMAC(I)-25-P17.5





#### PACKAGING

The SMAC-25 buzzers are packed on a polystyrene board (245 L x 245 W) and sold in boxes with dimensions of 250 L x 250 W x 125 H.

SMAC-25	
per board	81
per box	(5x81) 405

2014 75