



## ME703 – Datasheet (Preliminary)

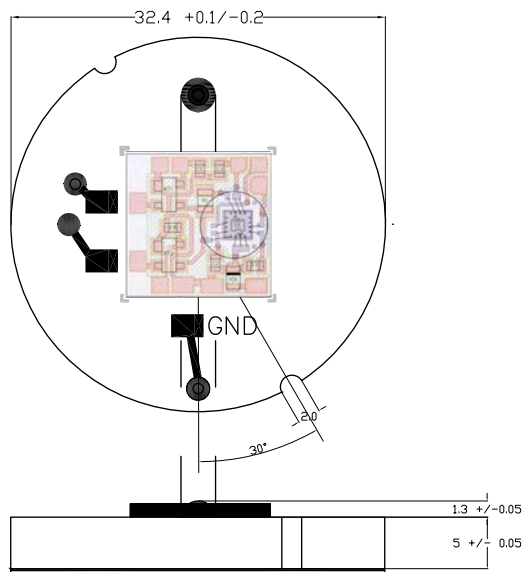
### ME703 - Datasheet

	ME703							
	60	160	400	1000	2000	5000	10000	20000
Pressure Ranges [mBar]	60	160	400	1000	2000	5000	10000	20000
Pressure Type <sup>1</sup>	Relative or absolute							
Technology	Capacitive / ratio							
Over pressure [Bar]	2	4	6	8	15	25	35	60
Max. Vacuum [Bar]	-0.2	-0.3	-0.5					
Capacity Cx and Cr [pF]	50..80							
Offset (Cx/Cr)	1 +/-0.1							
Sensitivity <sup>2</sup> (Cx/Cr)	0,2 .. 0,45							
Hysteresis [%FS]	<0.1							
Linearity-Error [%FS]	<12							
Stability [%FS]	≤ 0.2%FS							
Response time	≤10ms							
Life cycles	> 1'000'000 cycles							
Operating temperature	-40..+125 °C							
Storage temperature	-40..+125°C							
Material base	Ceramic Al <sub>2</sub> O <sub>3</sub> 96%							
Material membrane	Ceramic Al <sub>2</sub> O <sub>3</sub> 96% or 99%							
Connection	Coloured wires – 50.8mm							
Sensor dimensions <sup>3</sup>	∅ 32.4mm <sup>+0.1/-0.2</sup> x 8mm							
Total thickness (mm) <sup>4</sup>	5.17	5.24	5.33	5.47	5.59	5.81	5.86	6.30
Weight	≤ 30 g							
RoHs compliance	RoHS							
Supply [Vdc]	4.5 <sup>+7/-0.1</sup>							
Output signal [Hz]	50..125 Frequency signal proportional to pressure (F <sub>x</sub> and F <sub>r</sub> )							
Thermal drift [%FS/K]	< 0.01 %FS/K							
Temperature signal	Si-Diode on the electronics							
Accuracy	Non-calibrated sensor							
Accessories	PTFE Filter for relative configuration (protection against humidity)							

#### Notes :

- 1) from 1'000mBar (aboslute)
- 2) Sensitivity = Cx/Cr100% - Cx/Croffset
- 3) Max. height 8 mm (depending on the pressure range)
- 4) Base plate + membrane without electronic (toll.± 0.1mm)

### Mechanical drawing



### Typicals connections

