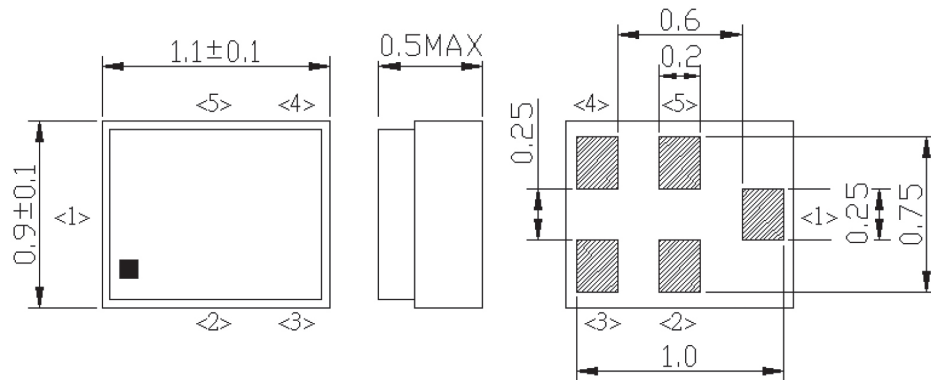


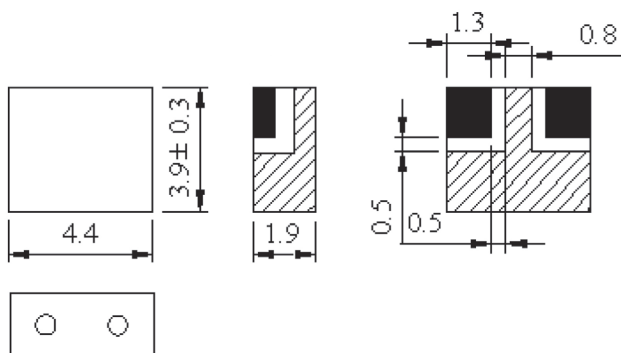
NEW FILTER OR WIFI AND V2V APPLICATION ENABLE HIGH POWER SIGNAL TRANSMISSION

Founded in 1997, Tai Saw Technology, leading manufacturer for high performance communication components, announces two new filters for IoT (2.4 GHz) and automotive V2V applications. Former Motorola employees founded TST, applied their extensive experiences in related device design, manufacturing and processing development to realize these SAW (surface acoustic wave) BAW (Bulk Acoustic Wave) devices and modules (Xtal, XO, VCO, VCTCXO etc).

*Dimension BAW Filter
TA2105D-B1397, 2437 MHz
(BW = 69 MHz)*



The new TA2105D-B1397 is a BAW (Bulk Acoustic Wave) filter 2437 MHz (BW = 69 MHz), in a tiny SMD 1.1 x 0.9 mm package and wide operating temperature range: -40 °C to +105 °C. The BAW technology enables an input power of 28 dBm (Ta = +50 °C, 10 kh, CW). Take advantage of the low loss in the WiFi band, while simultaneously high rejection in the band-edge and adjacent LTE/TD-LTE bands. Even if Wifi and LTE devices are close one to another, it guarantees coexistence of the signals.



*Dimension Microwave Dielectric Filter
TR0002A-B1397, 5825MHz (BW=100MHz)*

Vehicle-to-vehicle (V2V) is also known as VANET (vehicular ad hoc network) or more common in Europe Car-to-Car communication (Car2Car or C2C) allow automobiles to "talk" to each other. The wireless communication use the 5.9 GHz band. (5 875-5 905 MHz frequency band). In order to allow a proper filtering of the signals, low insertion loss and high power level, TST has developed a small dielectric filter dedicated to this application. This filter will be used as front end filter after the antenna.

The Microwave Dielectric Filter at centre frequency of 5825 MHz and bandwidth of 100 MHz, has a base area of just 4.4 x 3.9 mm² with 1.9 mm of height. The filter is specified for the temperature range of -40 °C to 105 °C.

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