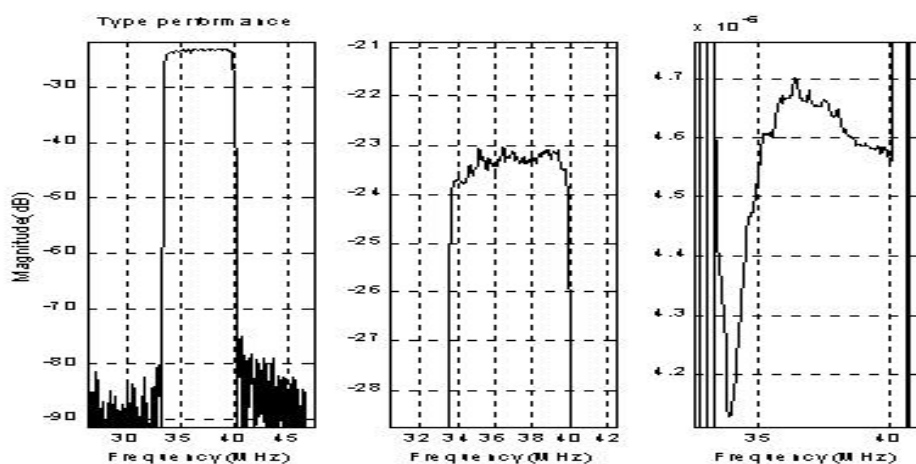




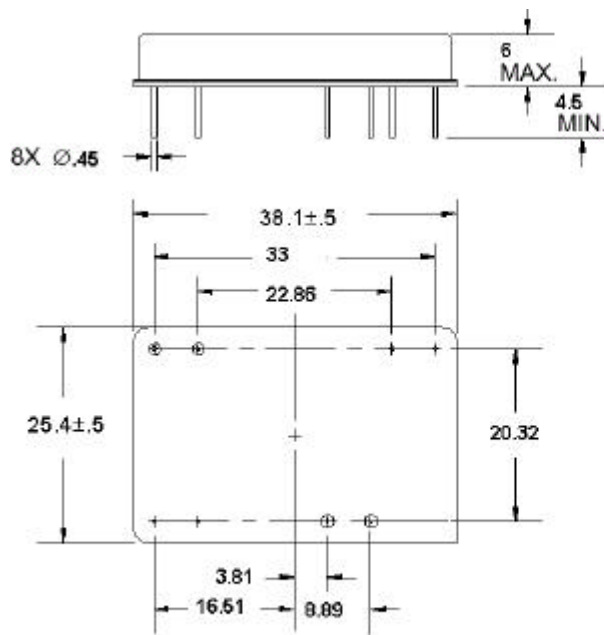
For PAL/B/G Filter

**SP38F6**

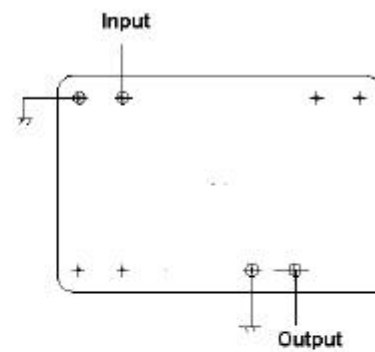
| Parameter                    | Unit | Minimum                            | Typical | Maximum |
|------------------------------|------|------------------------------------|---------|---------|
| Reference Frequency          | MHz  | -                                  | 38.9    | -       |
| Insertion Loss               | dB   |                                    | 23      | 25      |
| Passband variation           | dB   |                                    | 0.5     | 1.0     |
| @33.8MHz relative Loss       | dB   | -1.0                               | -0.6    |         |
| @39.65MHz relative Loss      | dB   | -1.0                               | -0.6    |         |
| @33.4MHz relative Loss       | dB   |                                    | -17     | -15     |
| @40.15MHz relative Loss      | dB   |                                    | -23     | -20     |
| @38.9MHz Group Delay         | nsec | -25                                | 0       | 25      |
| @37.9MHz Group Delay         | nsec | 18                                 | 53      | 78      |
| @368.9MHz Group Delay        | nsec | 65                                 | 90      | 115     |
| @35.9MHz Group Delay         | nsec | 50                                 | 75      | 100     |
| @35.15MHz Group Delay        | nsec | -25                                | 0       | 25      |
| @34.47MHz Group Delay        | nsec | -195                               | -170    | -145    |
| @34.1MHz Group Delay         | nsec | -450                               | -400    | -350    |
| Outband Rejection(10-33.05M) | dB   | 45                                 | 55      |         |
| Outband Rejection(40.4-70M)  | dB   | 45                                 | 55      |         |
| In/Out impedance             |      | 50ohms                             |         |         |
| Substrate Material           |      | 128LN                              |         |         |
| Ambient Temperature          | ° C  | 25                                 |         |         |
| Package Size                 |      | sc20 (38.1x25.4x6mm <sup>3</sup> ) |         |         |



Frequency Characteristic



Package outline



Matching configurate