

# FF...J SERIES

## GENERAL PURPOSE VIDEO FILTER

STEEPNESS FACTOR 1.32

This range of 7-pole Elliptical Function low pass filters is similar to a type which has been successfully used in Broadcasting for many years but is offered in a small size and at a reduced cost. The filters are corrected for group delay distortion over 95% of the passband and for loss distortion over the entire passband. Degradation of a composite video signal is minimal when a 4.5 MHz or 5.5 MHz filter is selected for a 525 or 625 line T.V. system.

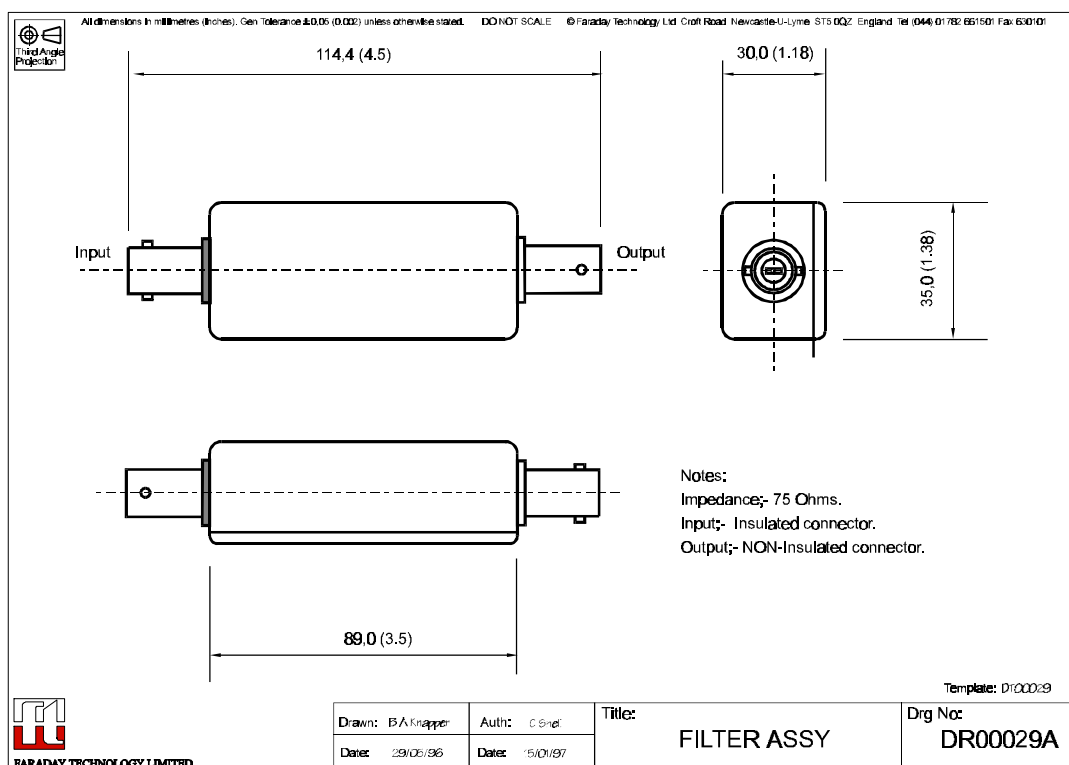
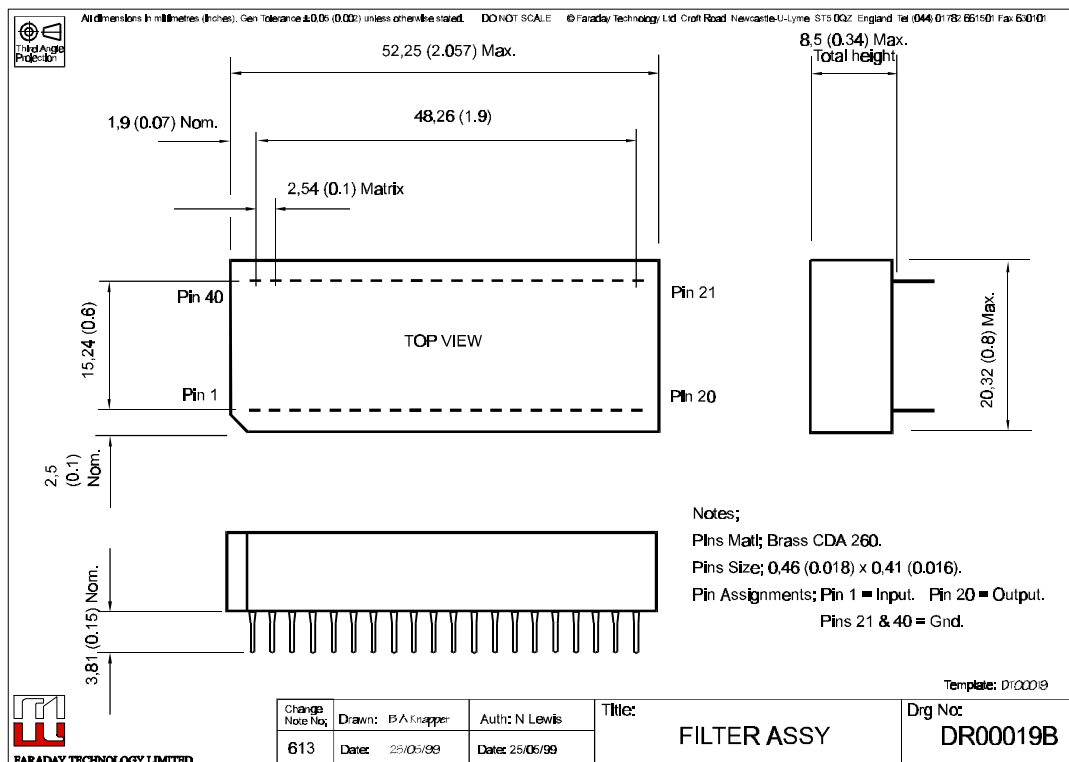
| Order Code | End of Passband<br>MHz | Nominal 3 dB<br>MHz | Start of Stopband<br>MHz | Group Delay Ripple<br>ns | Delay Time<br>ns |
|------------|------------------------|---------------------|--------------------------|--------------------------|------------------|
| FF0200J*   | 2.00                   | 2.15                | 2.65                     | 50                       | 1303             |
| FF0250J*   | 2.50                   | 2.68                | 3.32                     | 40                       | 1043             |
| FF0300J*   | 3.00                   | 3.22                | 3.98                     | 33                       | 870              |
| FF0350J*   | 3.50                   | 3.75                | 4.64                     | 29                       | 745              |
| FF0400J*   | 4.00                   | 4.29                | 5.30                     | 25                       | 652              |
| FF0450J*   | 4.50                   | 4.83                | 5.97                     | 22                       | 579              |
| FF0500J*   | 5.00                   | 5.36                | 6.63                     | 20                       | 521              |
| FF0550J*   | 5.50                   | 5.90                | 7.29                     | 18                       | 475              |
| FF0600J*   | 6.00                   | 6.44                | 7.96                     | 17                       | 434              |
| FF0650J*   | 6.50                   | 6.97                | 8.62                     | 15                       | 401              |
| FF0700J*   | 7.00                   | 7.51                | 9.28                     | 14                       | 372              |
| FF0750J*   | 7.50                   | 8.04                | 9.95                     | 13                       | 348              |
| FF0800J*   | 8.00                   | 8.58                | 10.60                    | 13                       | 326              |
| FF0850J*   | 8.50                   | 9.12                | 11.27                    | 12                       | 307              |
| FF0900J*   | 9.00                   | 9.65                | 11.94                    | 11                       | 290              |
| FF0950J*   | 9.50                   | 10.19               | 12.60                    | 11                       | 274              |
| FF1000J*   | 10.00                  | 10.73               | 13.26                    | 10                       | 261              |

\* insert    suffix 'D' for DIP package eg FF0500JD    DR00019B  
              suffix 'B' for BNC package eg FF0500JB    DR00029A

|            |                                                                                   |          |
|------------|-----------------------------------------------------------------------------------|----------|
| Other data | <i>Impedance</i>                                                                  | 75 ohms  |
|            | <i>Insertion Loss</i>                                                             | < 1.0 dB |
|            | <i>Stopband attenuation wrt 100 kHz</i>                                           | > 45 dB  |
|            | <i>Amplitude ripple in passband</i>                                               | < 0.2 dB |
|            | <i>Video performance for filters of 5.0 MHz (4.5 MHz for 525 line) and above.</i> |          |
|            | <i>Pulse and bar: K - rating</i>                                                  | < 0.5 %  |
|            | <i>Luminance/Chrominance Gain inequality (20T)</i>                                | < 2 %    |
|            | <i>Luminance/Chrominance Delay inequality</i>                                     | < 10 ns  |
|            | <i>Aqueous Washable</i>                                                           | No       |



# PACKAGE DETAIL



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