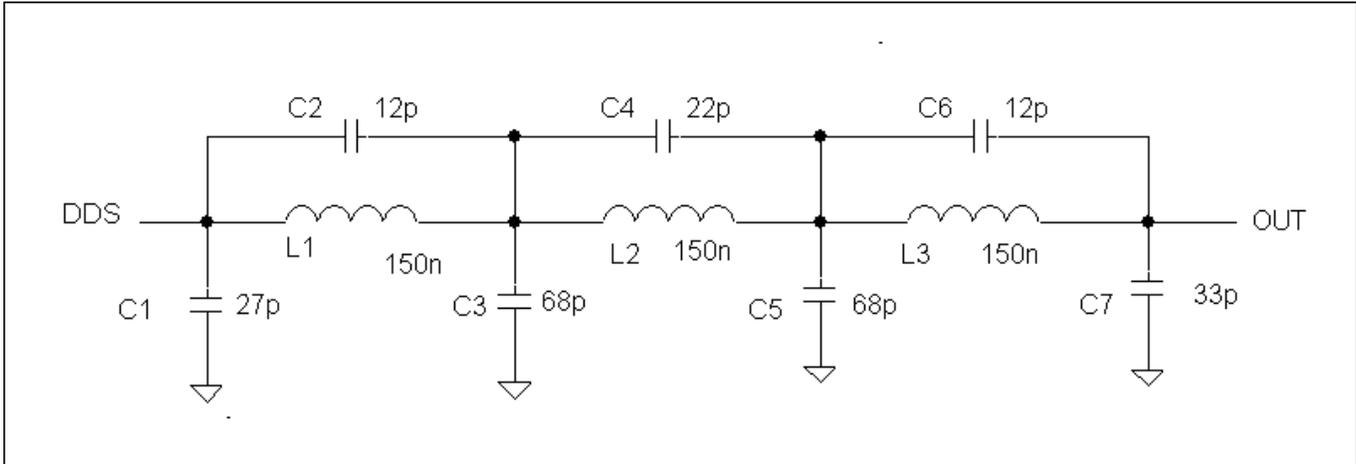


Same for RF and LO DDS and both 148.34 and 156.25 MHz clocks:



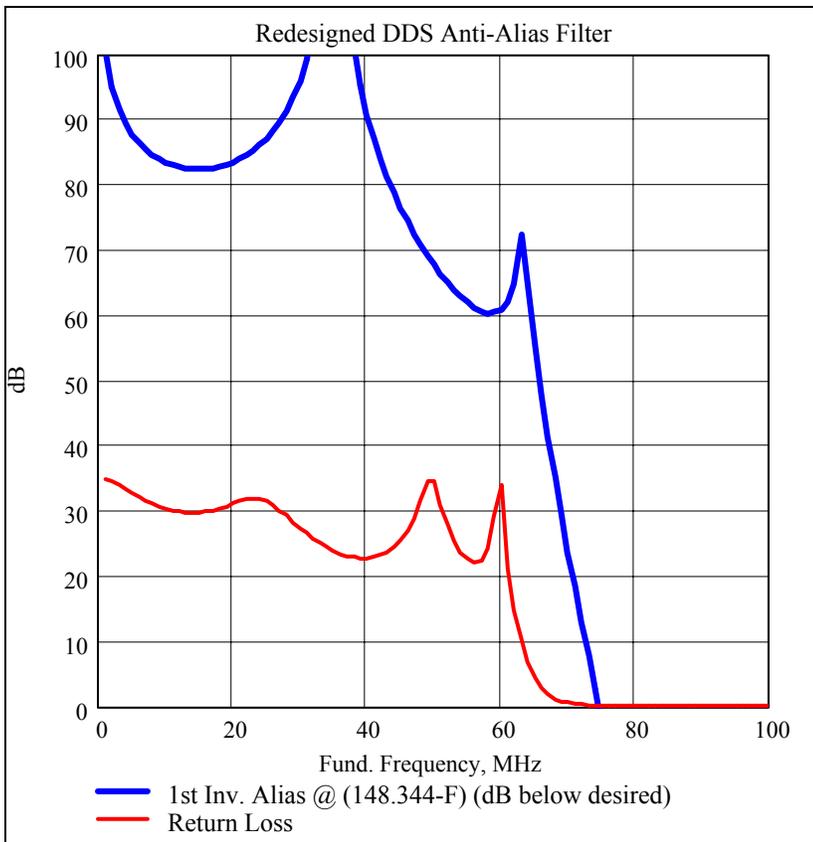
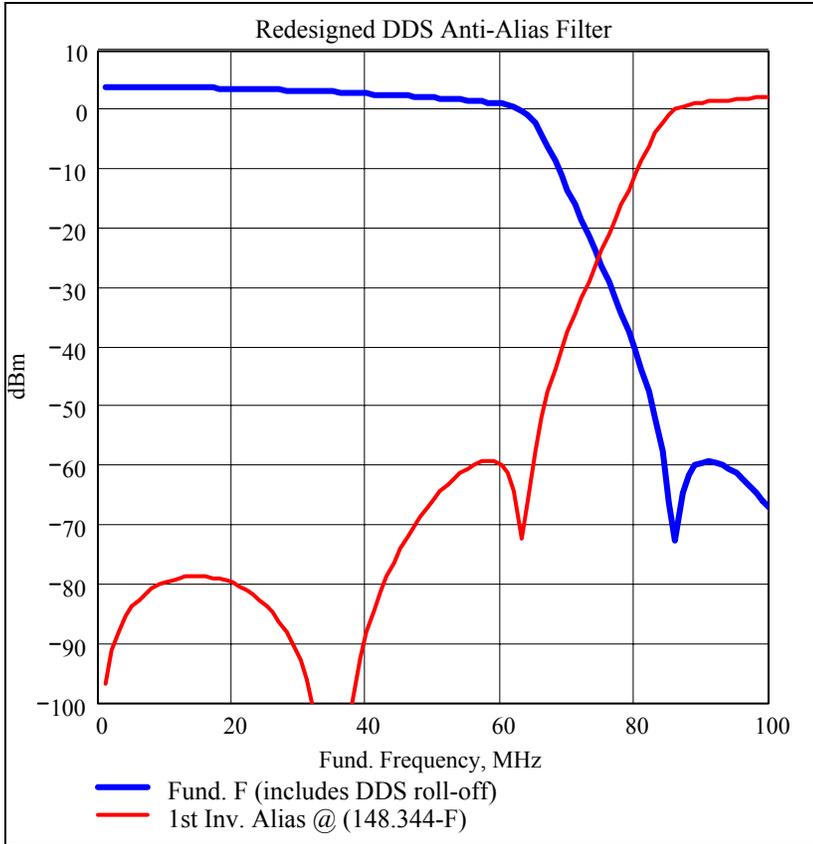
Parts list: Use these P/Ns only for original N2PK ExpressPCB PCBs, not VE3IVM V4.1 or V4.2 PCBs
(Ivan will update his Bills of Materials separately.)

| Desig | Description | Package | Manufacturer | Mfg P/N | Digikey P/N | Mouser P/N |
|-------|--------------------|---------|--------------|---------------|-------------------------------|---------------------------------|
| C1 | 27 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H270J | PCC270CGCT-ND | |
| C2 | 12 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H120J | PCC120CNCT-ND | |
| C3 | 68 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H680J | PCC680CGCT-ND | |
| C4 | 22 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H220J | PCC220CNCT-ND | |
| C5 | 68 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H680J | PCC680CGCT-ND | |
| C6 | 12 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H120J | PCC120CNCT-ND | |
| C7 | 33 pF/50V/NPO/5% | 0805 | Panasonic | ECJ-2VC1H330J | PCC330CGCT-ND | |
| L1 | 0.15 uH/Shield/10% | Note 2 | API Delevan | S1210R-151K | DN7909CT-ND | 807-S1210R-151K |
| L2 | 0.15 uH/Shield/10% | Note 2 | API Delevan | S1210R-151K | DN7909CT-ND | 807-S1210R-151K |
| L3 | 0.15 uH/Shield/10% | Note 2 | API Delevan | S1210R-151K | DN7909CT-ND | 807-S1210R-151K |

Notes:

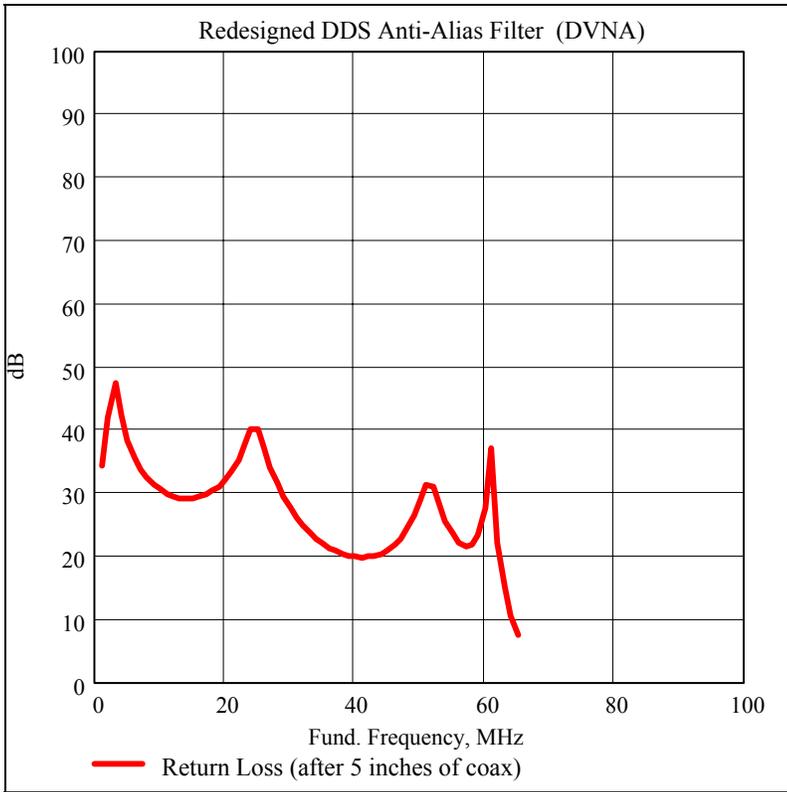
- C2 and C6 are new and have no pads. But the L1 and L3 pads are large enough to accommodate C2 and C6. Move L1 and L3 as far apart as possible and place C2 and C6 between L1 and L3.
- See the manufacturers drawing at: <http://products.delevan.com/pdf/s1210.pdf>

Simulation Results:



Measured Results (RF DDS at 10.5 MHz and tested at 1,2,3,...60 MHz):

Development VNA:



Standalone VNA:

