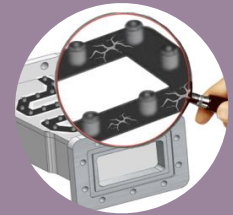


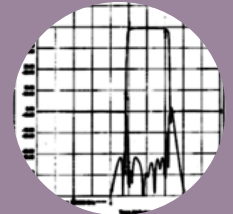
DAWN link

Ideas for improving your satellite reception



Avoid external tuning screws

Epoxy cracks, water leaks in, and filter fails unexpectedly



Sharp skirts only

Insist on 60 dB rejection outside 4000-4200 Mhz band



Use a FILTER to block interference

Place a high quality Phase2 filter up in the front of your sat-dish, between your feedhorn and C band LNB

All sat-dishes need a Phase2 filter installed before fall 2023; otherwise satellite reception will be destroyed. Your filter must protect you from the **BIG-3 interference sources**. Don't accept low-grade filters, which will surely fail when you need them most.

1

NEW 5G CELL

Starting fall 2023, cellular transmitters throughout USA will interfere with sat-dishes

2

AIRPORT RADAR

Sat-dishes near airports are exposed to powerful interference from radar

3

WIMAX MICROWAVE

New microwave transmit frequencies interfere with satellite reception



Silver inside & out

Cheap filters have silver in cavity only. Best filters have silver on everything

"My Filters don't work"

Broadcaster installed Korean-made filters, but they didn't work when the 5G cell interference turned-on

A few weeks ago we got a call from an installer, asking for advice on fixing a reception-killing interference problem. Everything had been working until recently. His customer had just installed some low-cost 5G filters. After ruling out other possible issues, we decided to investigate his import filter. He thought they got good filters, but he never checked the specs. It turned-out that his Korean-made filters did not have sharp skirts; and interference was coming through immediately above and below the FCC specified bandpass (4000 to 4200 Mhz). We told him the import filter won't block the interference; because it only offers a wimpy 25 dB rejection at 30 Mhz above and below the bandpass. For comparison, all of the USA-built models (and DAWNco filters) have sharp skirts, and get up to full 60 dB blocking immediately above and below the FCC specified bandpass. He couldn't believe that somebody would sell a filter that wouldn't work; but they did. The solution was to buy new DAWNco filters, which fixed the problem.

Top-grade DAWNco Filters work best

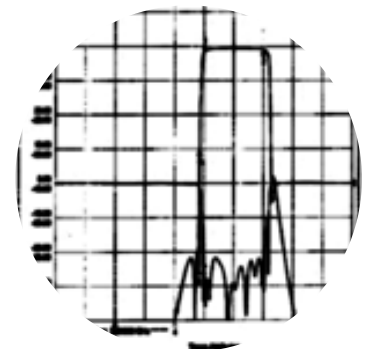
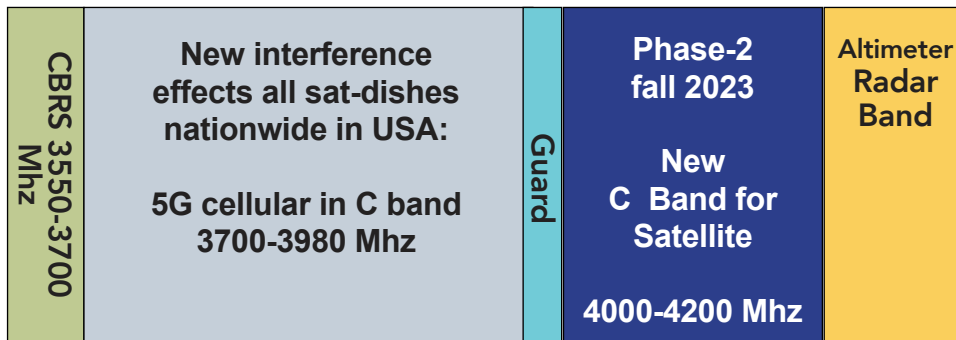
Great DAWNco filters provide MAXIMUM rejection of 5G cell interference for BEST satellite reception.

- Tuning screws are inside
- Best-Spec USA-built filters
- Plated entirely with real SILVER
- Fully complies with FCC filter requirements



CELL COMPANY HOTLINE. When 5G cell interference is so extreme that it exceeds the blocking capability of a filter, you may need to call the offending cellular carrier for help. The FCC has OK'd the final Phase2 of 5G cellular interference, to turn-on as soon as August 2023. Make sure you have a USA-built high quality filter in front of every CLNB on your sat-dishes. Sat dish must be 3.7m or larger.
 HOTLINE for Verizon: _____
 HOTLINE for AT&T: _____
 HOTLINE for T-Mobile: IFC@T-Mobile.com

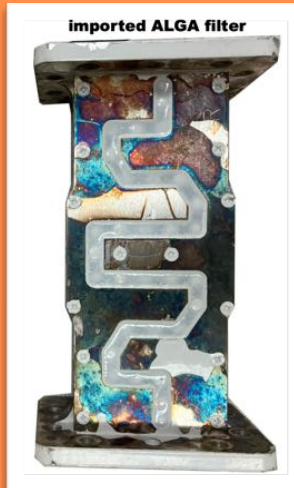
All dishes now need Phase2 filters to BLOCK all interference by -60 dB or more



Pass only the desired signals

IF ALL THE PAINT FLAKES OFF, HOW GOOD IS THE FILTER?

Many dozens of broadcasters have reported problems with the paint flaking off their Alga brand of 5G filter. This is a filter that is imported into the USA, and it can be recognized by the zig-zag S-shaped pattern on it's side. The S pattern is easily seen when the paint falls off. Many owners of these filters have observed that when the paint is shed, the metal beneath the paint starts to oxidize and corrode. A common concern is that if the paint failed; could that indicate that the filter will do a poor job of blocking interference? The paint flaking was observed on many of the import filters sold in 2021 and 2022. Some owners of this filter have removed all of them, and completely replaced them with the USA-built DAWNco filters. Does your dish have a filter paint-flaking problem?



FILTER+CLNB COMBO UNIT IS BAD

Some broadcasters have purchased the COMBO CLNB + Filter units, thinking that the all-in-one unit does the job of what two separate units would normally do. The trouble is the COMBO unit doesn't perform either function well. Norsat's COMBO CLNBs, with internal electronic bandpass filter, will only achieve -25 dB out-of-band rejection at the upper end of the new 5G interference. Compare that to the stand-alone DAWNco cavity filter rejection spec of -60 db. The combo CLNB & filter units only have +/- 10 KHz stability, compared to DAWNco's separate CLNBs with the best +/- 5 KHz stability rating. Bottom line: The COMBO unit does a poor job for the LNB function, and it's internal filter won't effectively block the coming 5G cell interference.

Import Filters have issues

EXTERNAL TUNING SCREWS LEAK & KILL THE FILTER

Avoid IMPORT filters which use external tuning-screws and epoxy. Some IMPORT filters utilize small tuning-screws on the outside of the filter. To prevent moisture from entering the cavity and destroying the filter, the factory places a puddle of epoxy over the external tuning-screws before shipping. In use at the front of a sat-dish, sunlight can break down the epoxy over time, causing cracks in the epoxy, and allowing moisture to enter the cavity. This external tuning-screw design can limit filter lifespan. Filters of this design may need to be replaced if the epoxy cracks and leaks. Another problem is that external tuning-screws can easily get bumped (such as carrying a filter up a ladder, or a branch falling on a filter). When the tuning screw is bumped, the filter performance can be permanently altered. Bumping the tuning-screws can result in the filter providing less rejection of interference, or more attenuation of desired signals. Low-grade filters utilize small diameter tuning-screws, which can allow screw movement and filter detuning over time. Some import filters utilize silver plating only inside the cavity, and nowhere else. Consider that when a filter fails, you have no visible evidence of failure, and it is often the last thing a user thinks of checking. The sat-dish owner can spend lots of time trying to diagnose a problem, before they determine that a filter has failed. Get the best USA-built filter now, to avoid headaches and outages and additional costs later.





FCC
Proclamation
7/7/23

install
Phase2
filter now
(replace
Phase1
filters)

We are reaching out to incumbent earth station operators that elected to receive lump sum payments as part of the C-band transition regarding recent developments in this transition process. By choosing the **lump sum option**, those **earth station operators are responsible for transitioning themselves** rather than having a satellite operator do so. Whether your plan has been to transition to the 4.0-4.2 GHz portion of the band or to exit the 3.7-4.2 GHz entirely, you should complete your transition as soon as possible if you have not already done so to **avoid possible interference from 5G operators** deploying terrestrial operations in the lower portion of the band. We encourage lump sum electees to monitor our public docket, GN Docket No. 23-97, to ascertain the current status of this ongoing certification and validation process, as it **may be completed prior to Dec 5, 2023**".

Phase2
Nationwide
interference
to sat-dishes
may start in
August

Purchase
and install
USA-built
DAWNco
Phase2
satellite
filters now.

The FCC recently opened a filing window starting June 1, 2023, for C-band space station operators to file certifications of **accelerated relocation for Phase II of the transition**. After all five space station operators file and have their certifications validated by the Commission then, as per the 3.7 GHz Report and Order, wireless operations will be permitted from 3.7-3.98 GHz nationwide. Thus far, three of the five space station operators have had their certifications validated. See Validation Orders for Embratel, Eutelsat, and Telesat (June 30, 2023).

We remind lump sum electees remaining in the band of their responsibility to **perform all necessary relocation actions** themselves and to coordinate with their space station operator to ensure continuity of service. **Failure to do so may result in harmful interference** to your operations. Given the ongoing space station operator certification process, we strongly encourage all lump sum electees to **complete these steps as soon as possible to avoid potential interference or service disruptions**.

Satellite
reception
can be
destroyed
without
filters

We also encourage lump sum electees who have not yet done so to create profiles and submit their lump sum reimbursement claims with the Relocation Payment Clearinghouse at <https://cbandrpc.com/>.

Any questions, please respond to this email at CBandLSE@fcc.gov

5G CELL INTERFERENCE STARTS SOON:
FCC announcement says new Phase2 of 5G interference will effect sat-dishes throughout the USA, starting as soon as August, 2023

FCC satellite repack COMPENSATION:

"Its like finding a pile of money in the corner of the room, and going to pick it up"

GO TO: cbandrpc.com



DAWNco FILTERS are top-grade

DAWNco filters are made in the USA, using time-proven designs and excellent craftsmanship • DAWNco filters provide up to 70 dB rejection of the new 5G cellular interference • DAWNco filters have sharp-skirt rejection patterns, proving that our filters block interference immediately above and below the desired bandpass • DAWNco filters do not have external tuning-screws. Our tuning-screws are all located inside the cavity, and completely sealed from physical damage and moisture ingress • Our tuning-screws are 5x the diameter of the import filter, which eliminates screw movement, and prevents filter detuning • DAWNco top-grade filters are entirely plated inside and outside with silver.

COMPENSATION FROM THE FCC: Here are the general guidelines for getting FCC compensation for the satellite repack, to cover your cost for new filters and dishes. NOTE: These options are not available for sites that chose to get free filters provided by SES or Intelsat.

1) The FCC offers compensation ONLY to dish sites that registered their satellite dishes with the FCC in 2018. This doesn't mean station registration; it means specifically sat-dish registration during a 6-month window ending October 17th, 2018. If you didn't register your dishes back then, you won't get compensation.

2) Did you select the LUMP-SUM reimbursement from the FCC? This compensation ranged from \$9K to \$42K of cash per dish, which you can spend on parts or keep for yourself. This option is only available to dish sites that registered their dish in 2018, and where the dish owner specifically told the FCC (before the August 31st, 2020 selection deadline) that they want the LUMP-SUM. If you selected Lump Sum back in 2020, you must go to the FCC C band clearinghouse to ask for the Lump Sum money.

3) **If you registered your sat-dish in 2018, but didn't choose Lump Sum in 2020; you can still get reimbursement for allowable expenses.** Contact the FCC C band clearinghouse, to get their list of allowable expenses. Submit your invoice to the Clearinghouse in the proper way, after you have purchased the needed filters and dishes, and other needed gear. They will send a refund for expenses that qualify.

Are your sat-dishes ready to block the coming 5G interference? Learn about the SATELLITE REPACK in 2023: Video produced by Society of Broadcast Engineers (SBE) interviewing John Joslin of DAWNco, discussing the satellite repack: <https://www.youtube.com/watch?v=UBzur5qBlj8&t=62s>