

End-state “Blue” Filter Spec (280x20)

- The end-state “Blue” filter will go on every feed in CONUS once the service migrations to the upper 200 MHz are completed.
- Intelsat uses the Alga Microwave filter, available from:
 - Alga directly

COST EFFECTIVE SOLUTIONS FOR THE FUTURE
 sales@alga.ca | 1-514-694-8666

•Satcom Resources
<https://www.satcomresources.com/ALGA-Microwave-C-Band-5G-Filter-Blue>

BE SURE TO SPECIFY THE GROUP “K” FILTER, this spec sheet covers groups J and K.

ELECTRICAL PROPERTIES		MECHANICAL PROPERTIES		
GROUP J FILTER	PASSBAND	4020 - 4200 MHz	INTERFACES	FLANGE: UDR40 CPR-229 FLAT FLANGE: PDR40 CPR-229 GROOVED
	GROUP DELAY VARIATION	1.45 nSec MAX Within ±0.5 MHz	MATERIAL	ALUMINUM 6061
	INSERTION LOSS	1.3 dB MAX	FINISH	FLANGES: CHEMICAL CONVERSION WAVEGUIDE: SILVER PLATE EXTERIOR: MATTE WHITE PAINT
	REJECTION	60 dB MIN AT 4000 MHz 25 dB MIN AT 4230 MHz	WEIGHT	2.2 Lbs [999g]
	RETURN LOSS	19 dB MIN	ENVIRONMENTAL PROPERTIES	OPERATING TEMP 0°C TO +50°C
GROUP K FILTER	PASSBAND	4000 - 4200 MHz		
	GROUP DELAY VARIATION	1.45 nSec MAX Within ±0.5 MHz		
	INSERTION LOSS	1.3 dB MAX		
	REJECTION	70 dB MIN BELOW 3900 MHz 60 dB MIN AT 3980 MHz 50 dB MIN AT 3983MHz (temp drift) 25 dB MIN ABOVE 4230 MHz		
	RETURN LOSS	20 dB MIN		

REFERENCE 3D VIEW

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REVISIONS			
REV	E.C.N.	DATE	APPROVED
A	INITIAL RELEASE	Aug 16, 2019	M.B.
B	ECN-20-0008	Feb 26, 2020	P.B.

INCH [MILLIMETER]	
UNLESS OTHERWISE SPECIFIED	FORMAT SIZE: A
DIMENSIONS ARE IN INCHES	137 1/2 Bldg, Toronto, Ontario
TOLERANCES AS PER DECIMALS	Canada: 416-881-0404
X.2501 .0005	Tel: 514-694-8666
X.002502 .0002	Fax: 514-694-8665
X.0014032 .0001 ±.0005	www.alga.ca & www.intelsat.com
DO NOT SCALE DRAWING	TITLE: Filter 4GHz WR229 Group J K
DRAWN: M.Sobol	DATE: Aug 16, 2019
CHECKED: M.B.	DATE: []
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