Ultra Miniature 2.45GHz Impedance Matched FCC / ETSI Compliant Low Pass

P/N 2450FM07A0035

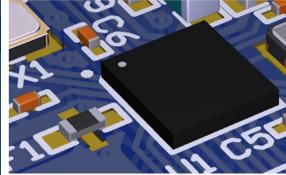
Filter: Optimized for Nordic's Chipset nRF52832-CIAA

Detail Specification: 2/11/2021 Page 1 of 4

AEC-Q200 qualified component available, contact us at: https://www.johansontechnology.com/ask-a-question

17 typ.@25°C 15 min.

General Specifications		
Part Number	2450FM07A0035	
Frequency (MHz)	2400 - 2500	
Insertion loss (dB)	0.35 Typ. (0.75 max.)	
Return Loss (dB)	10 Typ. (10 min.)	*
Input Impedance (Terminal Towards Chipset)	Impedance matched to Nordic Semiconductor nRF52832-CIAA, nRF52805-CAAA	15
Output Impedance	50Ω	Reel Quant
Power Capacity	3W max. (CW)	Operating '
Attenuatior	Recommer	
4800~5000MHz	26 typ.@25°C 24 min.	Conditions
	i e e e e e e e e e e e e e e e e e e e	1



Reel Quantity	10,000 pcs	
Operating Temperature	-40 to +85°C	
Recommended Storage	+5 to +35°C, Humidity:	
Conditions for unused	45-75%RH, 18 mo.	
T&R product	Max.	

You can download measured s-parameters of this component at: https://www.johansontechnology.com/nordic

Part Number Explanation					
P/N Suffix Packaging Style Termination Style	Bulk	Suffix = S	E.g. 2450FM07A0035S		
	Packaging Style	T&R	Suffix = T	E.g. 2450FM07A0035T	
	Termination Style	100% Tin	Suffix = None	E.g. 2450FM07A0035(T or S)	

For the Full App Note and Layout Files, go to: https://www.johansontechnology.com/nordic

Mechanical Dimensions			
	In	mm	<u></u>
L	0.039 ± 0.002	1.00 ± 0.05	
W	0.020 ± 0.002	0.50 ± 0.05	M
Т	0.016 max.	0.40 max.)
а	0.007 ± 0.004	0.18 ± 0.10	
b	0.010 ± 0.004	0.25 ± 0.10	
T L		a	b a w

Terminal Configuration			
No.	Function		
1	IN (To the nRF52)		
2	GND		
3	OUT (To Antenna)		
4	GND		
1 3			

Johanson Technology, Inc. reserves the right to make design changes without notice.

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7200~7500MHz

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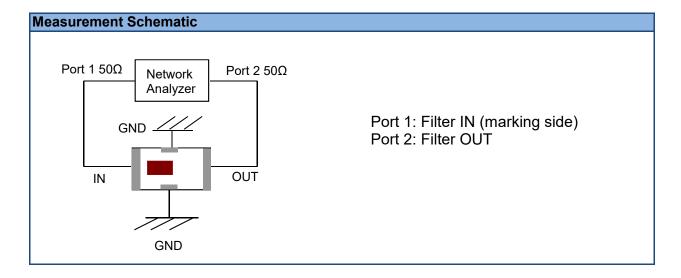
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Mounting Pad Dimensions Solder Resist Land Through-hole (ϕ 0.20) *Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Do you need the layout files of the above? Go to: https://www.johansontechnology.com/nordic or send us a message to review your layout at: www.johansontechnology.com/ask-a-question



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If you would like recommendation on a mini 2.4G embedded antenna, free layout verification, reference design files (gerbers, schematic, etc) or s-parameter files, please contact us at:

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P/N 2450FM07A0035

Optimized for Nordic's Chipset nRF52832-CIAA

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Application Notes, Layout Files, and more

https://www.johansontechnology.com/nordic

Packaging information

https://www.johansontechnology.com/tape-reel-packaging

Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

https://www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

https://www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

https://www.johansontechnology.com/technical-notes/rohs-compliance

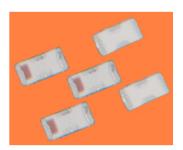
Antenna layout and tuning techniques

https://www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

https://www.johansontechnology.com/ipc-antenna-services

Johanson uses 6/6 RoHS Green Low-Temperature-Co-fired-Ceramic (LTCC) integrated passive technology in a 4-pin (Sn plated) monolithic structure. This component is 100% RF Tested, making it a more reliable system, impedance controlled environment, consistent-guaranteed RF performance in a very small RF front end-solution compared to the L/C discrete solution.



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