mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Miniature 2.45GHz Impedance Matched Front-End Filter Optimized for Semtech SX1280, SX1281

Detail Specification: 5/10/2018

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

General Specifications					
Part Number	2450FM07D0034				
Frequency (MHz)	2400 - 2500				
Insertion loss (dB)	0.75 Typ. (1.0 max.)				
Return Loss (dB)	14 Typ. (10 min.)]			
Input Impedance	Impedance matched to				
(Terminal Toward Chipset)	Semtech SX1280, SX1281				
Output Impedance	50Ω				
Power Capacity	3W max. (CW)				
Attenuation (dB)					
4800 - 5000MHz	35 Typ. (30 min.)	Reel			
7200 - 7500MHz	30 Typ. (25 min.)	Stora			
9600 - 10000MHz	30 Typ. (25 min.)	Oper			
12000 - 12500MHz	25 Typ. (20 min.)	Reco			
14400 - 15000MHz	9.5 Typ. (4.5 min.)	Conc			
16800 - 17000MHz	80 Typ (30 min)	T&R			



P/N 2450FM07D0034

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ĺ	4800 - 5000MHz	35 Typ. (30 min.)	Reel Quantity	10,000 pcs
ĺ	7200 - 7500MHz	30 Typ. (25 min.)	Storage Temperature	-40 to +85°C
	9600 - 10000MHz	30 Typ. (25 min.)	Operating Temperature	-40 to +85°C
ĺ	12000 - 12500MHz	25 Typ. (20 min.)	Recommended Storage	+5 to +35°C, Humidity:
ĺ	14400 - 15000MHz	9.5 Typ. (4.5 min.)	Conditions for unused	45-75%RH, 18 mo.
ĺ	16800 - 17000MHz	8.0 Typ. (3.0 min.)	T&R product	Max.
1				

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

Part Number Explanation							
	Packaging Style	Bulk	Suffix = S	E.g. 2450FM07D0034S			
P/N Suffix		T & R	Suffix = T	E.g. 2450FM07D0034T			
	Termination Style	100% Tin	Suffix = None	E.g. 2450FM07D0034(T or S)			

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



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P/N 2450FM07D0034

Semtech SX1280, SX1281 Detail Specification: 5/10/2018

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Mounting Pad Dimensions



Do you need the layout files of the above? Go to: www.johansontechnology.com/ask-a-question

Measurement Schematic



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Semtech SX1280, SX1281

Detail Specification: 5/10/2018

Application Notes, Layout Files, and more

www.johansontechnology.com/semtech

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

www.johansontechnology.com/rohs-compliance

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

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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