

"High Frequency Ceramic Solutions"

2.4GHz High Rejection BPF with LGA-type terminations for reduced effective footprint

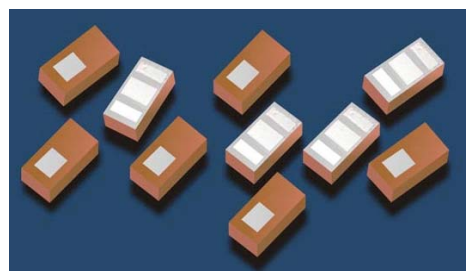
P/N 2450BP15Q0100

Detail Specification: 9/7/2012

Page 1 of 2

General Specifications	
Part Number	2450BP15Q0100
Frequency (MHz)	2400 ~ 2500
Attenuation (db)	35 min.@824 ~ 960MHz
	30 min.@1545 ~ 1605MHz
	35 min.@1710 ~ 1990MHz
	30 min.@2170MHz
	30 min.@4800 ~ 5000MHz
	25 min.@7200 ~ 7500MHz
Insertion Loss (dB)	1.8 max.@ 25 °C 2.0 max.@-40~85 °C
Return Loss (dB)	10 min
Power Capacity	2 Watt max.

Operating Temperature	-40 to +85°C
Recommended Storage Conditions	+5 to +35°C, Humidity 45~75%RH, 18 months, 1 week max after opened*
Reel Quantity	4,000
Solder Paste	SAC 305 type is recommended.



Part Number Explanation				
P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450BP15Q0100S
		T & R	Suffix = E	eg. 2450BP15Q0100E
	Termination style	100% Tin	Suffix = None	eg. 2450BP15Q0100 (E or S)
	Evaluation Board	2450BP15Q0100-EBSMA		

Mechanical Dimensions		
	In	mm
L	0.079 ± 0.006	2.0 ± 0.15
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 Max.	0.70 Max.
a	0.037 ± 0.004	0.95 ± 0.10
b	0.011 ± 0.004	0.275 ± 0.10
c	0.024 + 0.004	0.6 + 0.10
d	0.010 ± 0.020	0.25 ± 0.50

Unit:mm

Terminal Configuration	
No.	Function
1	I/O
2	GND
3	I/O

Pins 1 and 3 are interchangeable (symmetrical component)

Pins 1 and 3 have a DC path to Pin 2

If DC block required, a 10pF - 15pF low loss cap should be mounted at the I/O's

*For more info go to www.johansontechnology.com/silverleads



www.johansontechnology.com

001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2012 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

2.4GHz High Rejection BPF with LGA-type terminations for reduced effective footprint

P/N 2450BP15Q0100

Detail Specification: 9/7/2012

Page 2 of 2

Mounting Considerations

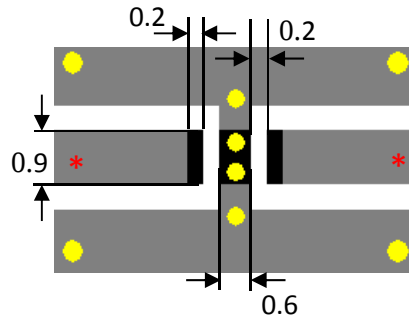
*Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

LEGEND

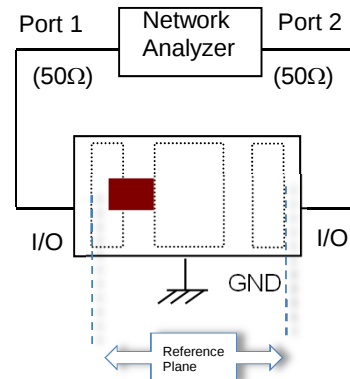
■ Solder

■ Land

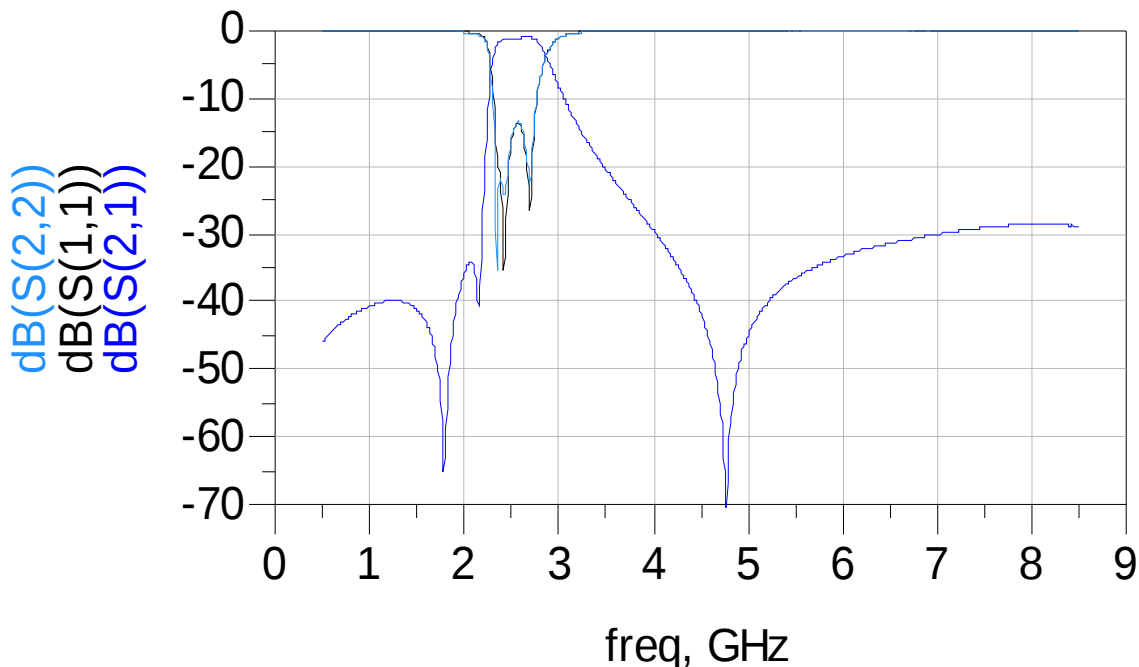
○ Through-hole ($\phi 0.3$)



Measuring Diagram



Typical Electrical Performance (T=25°C)



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2012 Johanson Technology, Inc. All Rights Reserved