

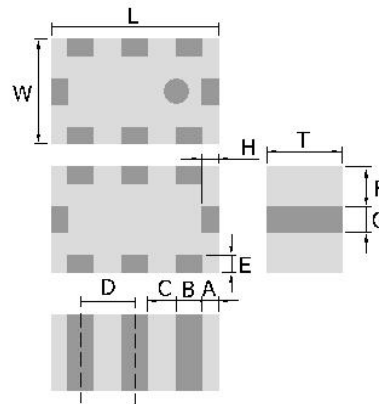
PRODUCT FEATURES

1. Surface mount band pass filter with a small size of 2.0 X 1.2 X 0.6 mm, RoHS compliant.
2. Provide low insertion loss, high rejection rate, and low profile.
3. Highly stable under temperature and humidity changes.

RF CHARACTERISTICS

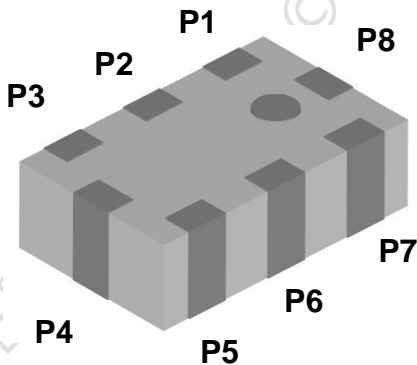
P/N BP2500E0805AT	Specification
Frequency range	2400 - 2500 MHz
Insertion Loss (max)	1.8 dB max
VSWR	2.0 max
Impedance	50 Ω
Attenuation (min.)	25dB @ 870-960 MHz 25dB @ 1710-1910 MHz 20dB @ 1910-1990 MHz 15dB @ 4800-5000 MHz 15dB @ 7200-7500 MHz
Operating temperature range	-40°C to +85°C

PHYSICAL DIMENSIONS



Symbol	Dimension (mm)
L	2.00 ± 0.15
W	1.25 ± 0.15
T	0.60 ± 0.10
A, E	0.20 ± 0.15
B, G	0.30 ± 0.15
C	0.35 ± 0.15
D	0.65 ± 0.15
F	0.475 ± 0.15
H	0.25 ± 0.15

TERMINAL CONFIGURATION



PIN	Definition	PIN	Definition
P1	OUT	P5	IN
P2	NC	P6	GND
P3	NC	P7	NC
P4	GND	P8	GND



PCB DESIGN/LAYOUT CONSIDERATION

Figure	Symbol	Dimension (mm)
	L1	0.40 ± 0.05
	L2	0.20 ± 0.05
	L3	0.90 ± 0.05
	L4	2.10 ± 0.05
	L5	0.80 ± 0.05
	L6	0.80 ± 0.10
	L7	0.80 ± 0.05
	D1	0.40 ± 0.05
	D2	0.20 ± 0.05

Design trace width to be 50 Ohms impedance. D1 and D2 are via holes to ground.

Typical RF Performance

