

# UPB360A - PRELIMINARY

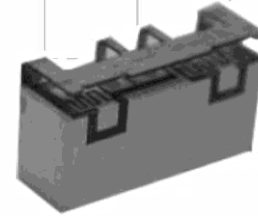
## 3400-3800MHz UPB Series TDD Bandpass Filter

### Features

- Low Loss with High Rejection
- Low ripple
- Universal footprint across family for all TDD bands

### Applications

- Wireless Infrastructure applications
- High-performance carrier-grade single-band TDD Pico-cell basestations for 0.25-0.5W at the antenna port.



Part Dimensions: 9.2 × 6.4 × 3.1 mm • < 1 g  
Materials: Ag plated ceramic block with tin plated brass shield

### Description

Surface mount ceramic bandpass filter supports a universal footprint across all TDD frequency bands enabling the use of a common system PCB. Superior rejection, insertion loss, reliability, as well as both peak and average power handling compared other bandpass filter technologies.

### Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max

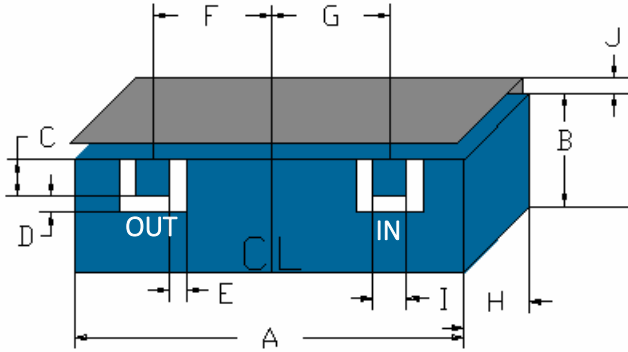
#### Input-Output Response

Passband Insertion Loss (5 MHz avg)	3400-3800	1.4 dB	1.8 dB max	2.0 dB max
Passband Ripple	3400-3800	0.7 dB	1.0 dB max	1.2 dB max
Passband Return Loss	3400-3800	15 dB	14 dB min	14 dB min
Attenuation:	1-3300	12 dB	10 dB min	10 dB min
	3900-TBD	12 dB	10 dB min	10 dB min

Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

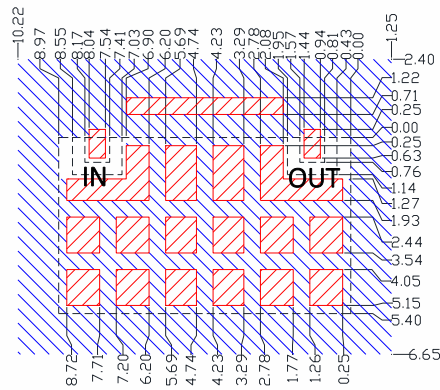
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

### Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	0.20
B	5.40	max
C	0.76	0.13
D	0.38	0.13
E	0.38	0.13
F	3.30	0.13
G	3.30	0.13
H	3.10	max
I	0.76	0.13
J	1.00	max

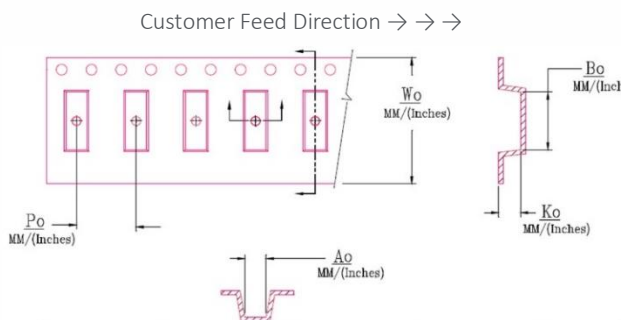
### PCB Layout



-----	Filter Outline		Solder Resist Over Dielectric
	Exposed Conductor		Solder Resist Over Conductor

### Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS
Reel Weight	kg	5.5	360
Reel Quantity	ea.	500	YWW



W <sub>0</sub>	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P <sub>0</sub>
0.945 in	0.264 in	0.366 in	0.132 in	0.472 in
24.0 mm	6.7 mm	9.3 mm	3.35 mm	12.0 mm

### Electrical Response

