Description

The YCPW080 is a low temperature co-fired ceramic (LTCC) Ultra Wide Band Pass Filter designed for high performance in various applications. The small part size allow for high density PCB layout, provide excellent solderability.

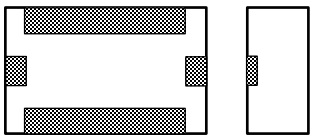
The YCPW080 is particularly well-suited for wireless transmitters or receivers.

Applications

- IoT / M2M
- Smart Access
- Detection / Tracking
- Navigation / Payment

Features

- 6240 - 8240MHz
- Low Insertion Loss
- High rejection out-of-band
- Surface Mount Type
- Miniature Size

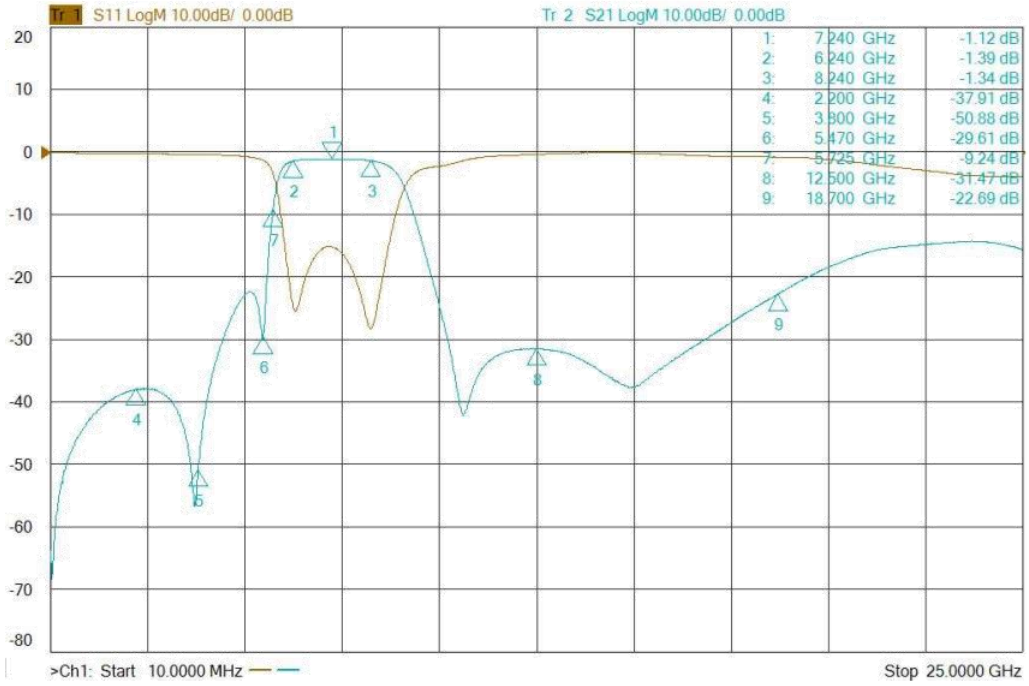


Electrical Specification

Parameter[1)]		Specification			Unit
		Min.	Typ.	Max.	
Frequency Range		6240	-	8240	MHz
Insertion Loss		-	1.3	2.3	dB
Attenuation	698-2200 MHz	30.0	-	-	dB
	2300-3800 MHz	30.0	-	-	
	5150-5470 MHz	19.0	-	-	
	5470-5725 MHz	3.0	-	-	
	12500-16500 MHz	25.0	-	-	
	18700-20000 MHz	15.0	-	-	
VSWR		-	-	2.21	-
Power Capacity		-	-	0.5	W
Operation Temperature Range		-40	-	+85	℃

Notes:
1) Ta = 25℃, unless otherwise noted.

Performance Plots



Notes:
1) PCB loss 0.15dB included.

Recommended Operating Condition

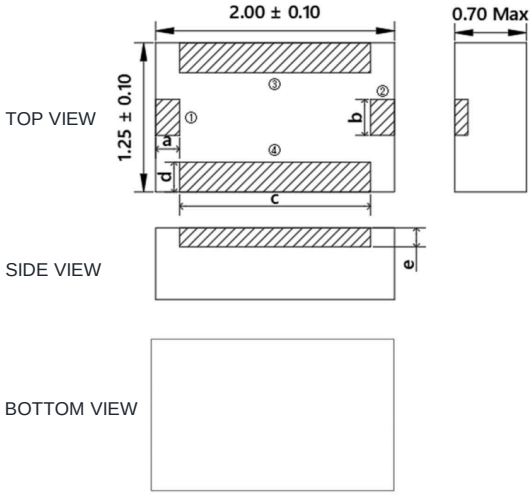
Parameter	Min	Typ	Max	Units
Operating Temperature	-40	25	85	°C
Storage Temperature	-20		35	°C

Notes:
1) Storage Temperature Range before soldering in taping package.

Absolute Maximum Ratings

Parameter	Rating	Units
Input Power (AVG/CW)	3	W

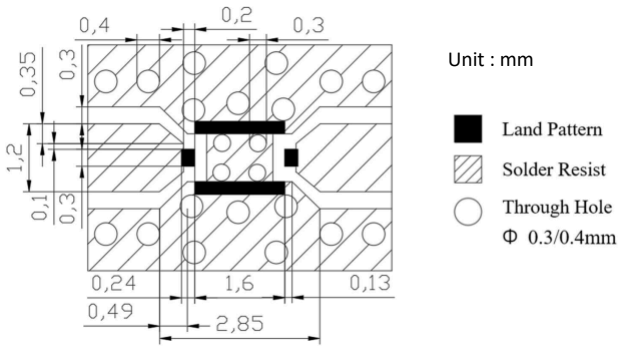
Package Outline Drawing



Terminal Function	
①	Input
②	Output
③	GND
④	GND

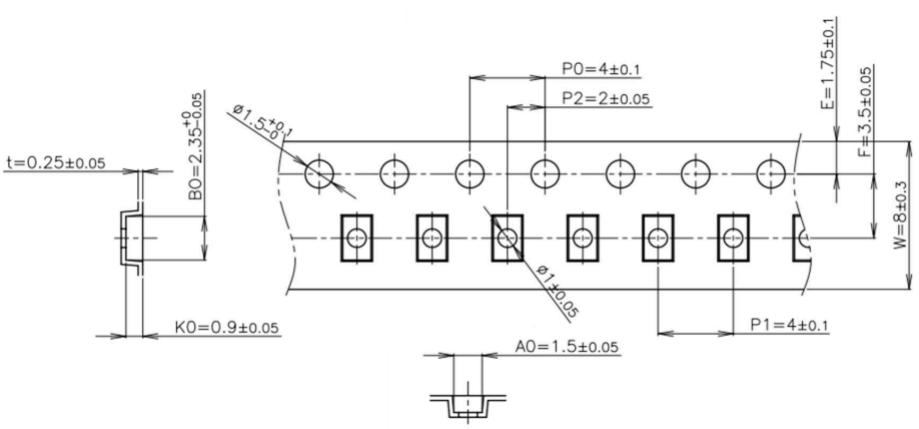
Terminal Dimensions (mm)			
a	0.20±0.10	e	0.14±0.05
b	0.30±0.10	f	1.88±0.20
c	1.60±0.10	g	1.19±0.20
d	0.25±0.10		

PCB Land Pattern



Notes:
1) Based on RO4350B, 20mil PCB.

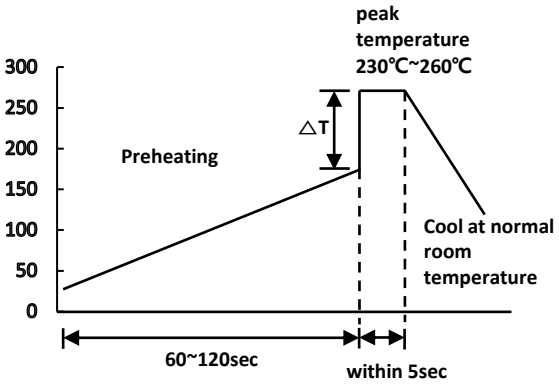
Tape Packaging Method



Notes:
1) 10 sprocket hole pitch cumulative tolerance ±0.2
2) Camber not to exceed 1mm in 250mm
3) A0 and B0 measured on a plane in the inside bottom of the pocket to the top surface of the carrier
4) K0 measured from a plane in the inside bottom of the pocket to the top surface of the carrier
5) Pocket position relative sprocket hole measured as true position of sprocket, not pocket hole.
6) Pocket center and pocket hole center must be same position.
7) Surface resistivity : 10E+5 ~ 10E+9 OHMS / SO
8) Standard Reel Quantity : 3,000 pcs per Reel.

Reflow-soldering Conditions (For reference)

For eutectic soldering



For Pb-free (Sn-3.0Ag-0.5Cu)