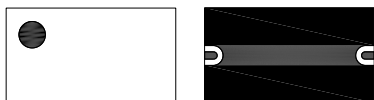


Description

The YCPB255 is a low temperature co-fired ceramic (LTCC) Band Pass Filter designed for high performance in various applications. The small part size allow for high density PCB layout, provide excellent solderability.



Applications

- ◆ 5G mmWave applications
- ◆ Narrow & Wideband amplifiers
- ◆ Factory and Process automation
- ◆ Test Instrumentation
- ◆ Satellite communication

Features

- ◆ 24.75 – 26.3GHz
- ◆ Low Insertion Loss
- ◆ High rejection out-of-band
- ◆ Surface Mount Type

Electrical Specification

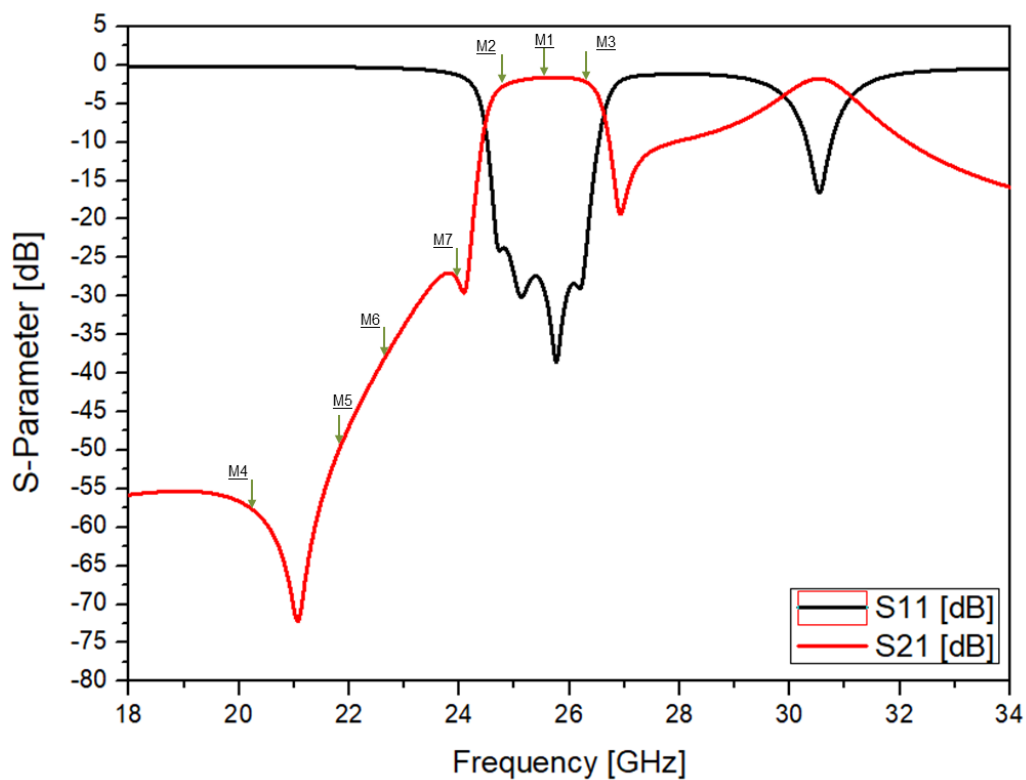
Parameter ¹⁾	Specification			Conditions	Unit
	Min.	Typ.	Max.		
Frequency	24.75	-	26.3	-	GHz
Insertion Loss	-	3.2	3.9	-	dB
VSWR	-	-	1.8	-	-
Ripple	-	-	1.8	-	dB
Attenuation	25	27	-	@22.6 – 24.05	dB
	40	46	-	@20.35 – 21.90	dB
Group Delay	-	0.5	1	-	nS
Power Capacity	-	5	-	@ 85°C	W
Operation Temperature Range	-55	-	105	-	°C

Notes:

1) Ta = 25°C, 50Ω system, unless otherwise noted.

Performance Plots : simulated data

Insertion Loss, Attenuation & Return Loss



Marker	Frequency [GHz]	Value [dB]	Marker	Frequency [GHz]	Value [dB]
M1	25.5	-1.65	M5	21.9	-48.5
M2	24.75	-2.98	M6	22.6	-38.6
M3	26.3	-2.25	M7	24.9	-29.2
M4	20.35	-58.2			

Recommended Operating Condition

Parameter	Min	Typ	Max	Units
Operating Temperature	-55	25	105	°C
Storage Temperature	-20		35	°C

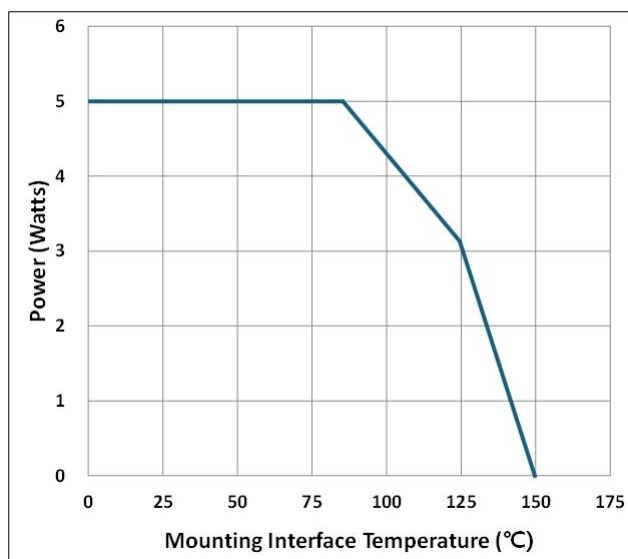
Notes:

1) Storage Temperature Range before soldering in taping package.

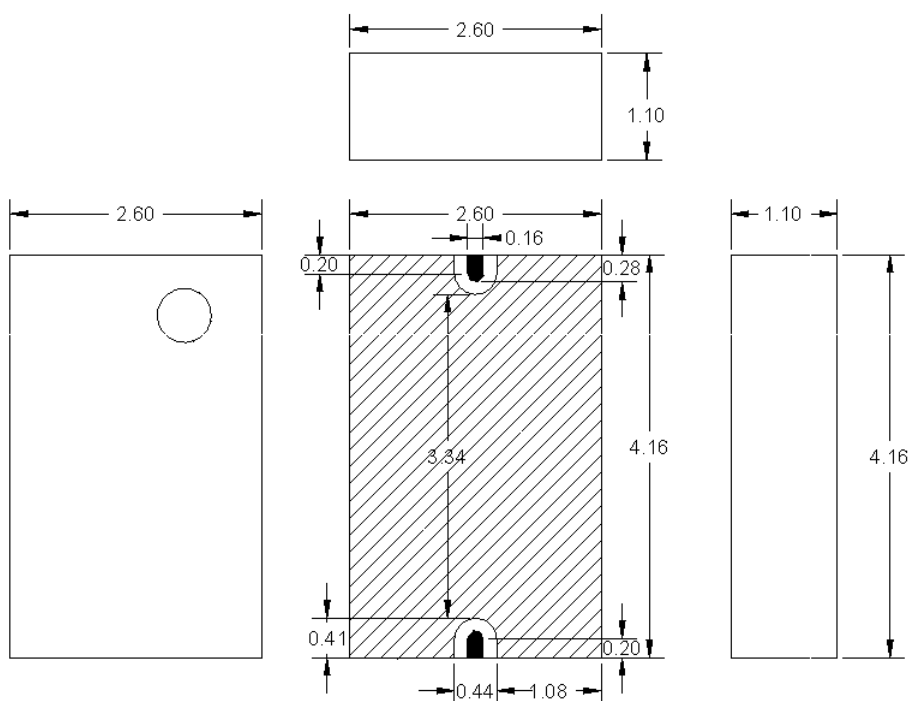
Absolute Maximum Ratings

Parameter	Rating	Units
Input Power (AVG/CW)	5	W

Power Derating Curve



Package Outline Drawing



Unit : mm
Tolerance : +/- 0.15