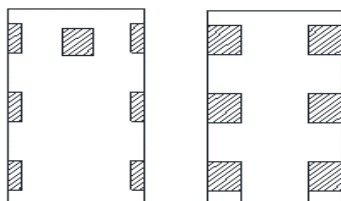


Description

YCPX055 is a three-port filter element that separates two frequency ranges in a dual band. YCPX055 are designed to achieve miniaturization and low insertion loss, while also supporting high functionality. They are also ideal for embedding in modules.

YCPX055 using low temperature co-fired ceramics (LTCC) are available in a wide range of products with variations in frequency, shape and size, terminal structure, specification values, and more.



Applications

- ◆ Cellular Infrastructure
- ◆ Wi-Fi module
- ◆ Multi-band amplifiers
- ◆ ISM Band
- ◆ Test Instrumentation

Features

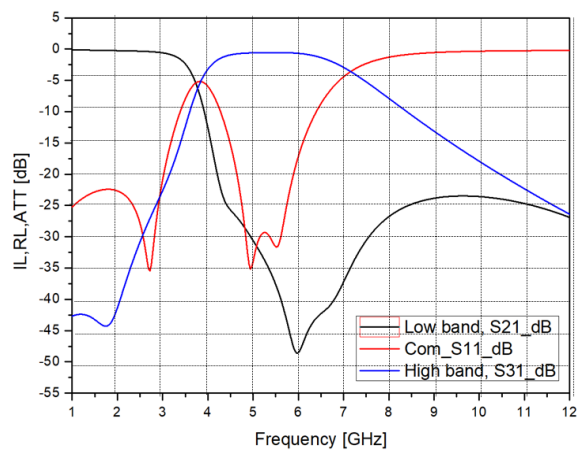
- ◆ 2400 – 2500MHz, 4900 – 5950MHz
- ◆ Low Loss Silver Conductor
- ◆ Surface Mount Type
- ◆ Gold Plating Finish
- ◆ RoHS Compliant

Electrical Specification

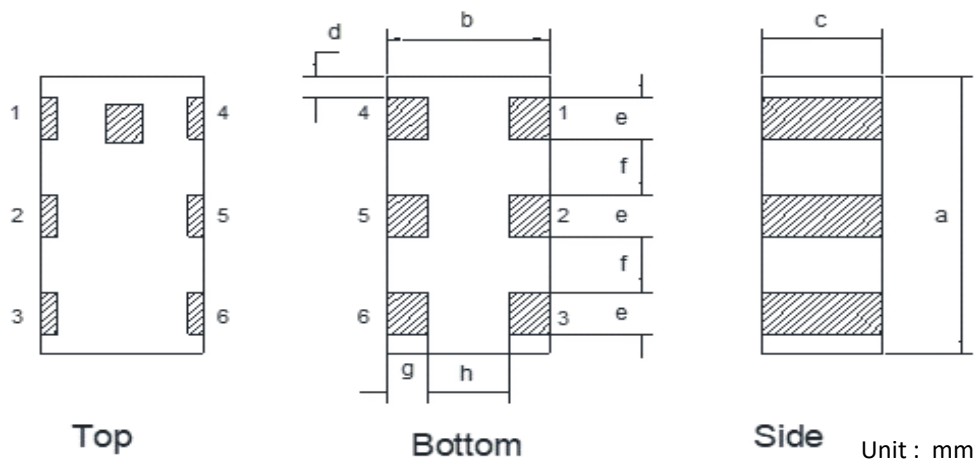
Parameter	Specification			Conditions	Unit
	Min.	Typ.	Max.		
Frequency (Lower)	2400	-	2500	-	MHz
Frequency (Higher)	4900	-	5950	-	MHz
Insertion Loss	-	-	0.5	@ 2400 – 2500MHz	dB
	-	-	0.6	@ 4900 – 5950MHz	dB
VSWR	-	-	2.0	-	dB
Return Loss	10	-	-	-	dB
Attenuation	21	-	-	@ 4900 – 5000MHz(Lower)	dB
	30	-	-	@ 7200 – 7500MHz(Lower)	dB
	27	-	-	@ 820 – 2170MHz(Higher)	dB
	20	-	-	@ 9.8 – 11.9GHz(Higher)	dB
Isolation	21	-	-	@ 4900 – 6950MHz(Lower)	dB
	30	-	-	@ 4900 – 6950MHz(Higher))	dB

Performance Plots

RF Frequency: 2400 ~ 2500MHz, 4900 ~ 5950MHz



Package Outline Drawing



Item	size	Item	size
a	1.6 ± 0.1	e	0.2
b	0.8 ± 0.1	f	0.3
c	Max 0.6	g	0.15
d	0.2	h	0.5

port	exposition	port	exposition
1	Lower Freq. Port	4	GND
2	GND	5	Common Port
3	Higher Freq. Port	6	GND