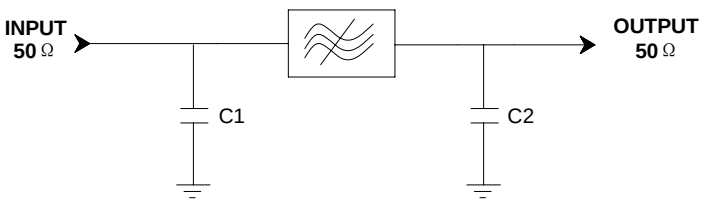
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	455.7	456	456.3
Insertion Loss	dB	-	25	28
1 dB Bandwidth	MHz	4.7	4.67	-
3 dB Bandwidth	MHz	-	5.07	-
25 dB Bandwidth	MHz	-	6.27	6.4
40 dB Bandwidth	MHz	-	6.66	6.7
50 dB Bandwidth	MHz	-	6.91	13
Passband Variation	dB	-	0.7	1
Group Delay(f0±2.4MHz)	nesc	-	120	200
Absolute Delay	usec	-	1.7	2
Ultimate Rejection	dB	45	50	-
Material Temperature coefficient	KHz/°C	0.456		
Ambient Temperature	°C	25		
Package Size	DIP2212 (22.2x12.8x4.7mm3)			

Notes:

1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance show

Matching Configuration

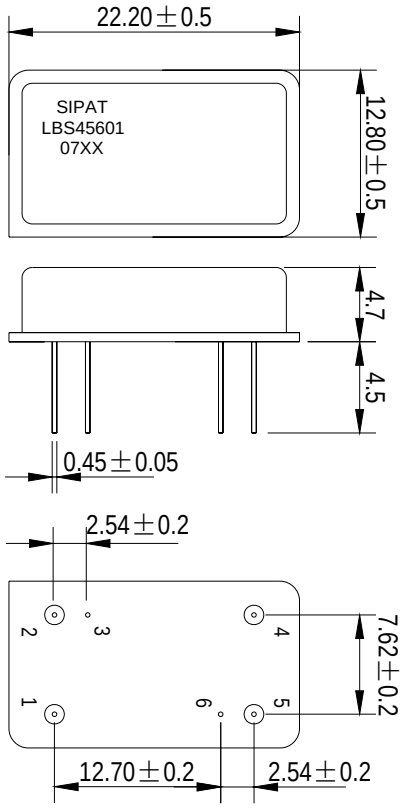


C1=22pF C2=15pF

Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



1) ·: Pad Number 1 Index
2) SIPAT: Manufacturer name
3) LBS45601: Part Number
4) 07XX: Date Code

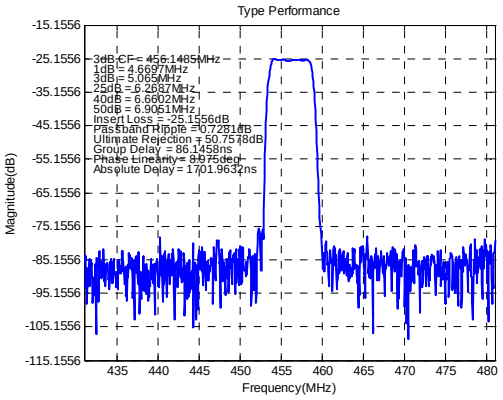
Input	1
Output	4
Ground	2,3,5,6

Package: DIP2212

Unit: mm

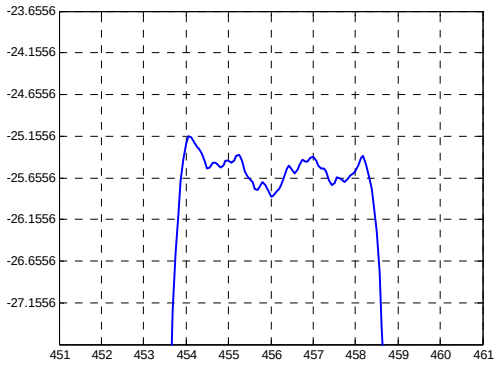
Typical Performance

Frequency Respond



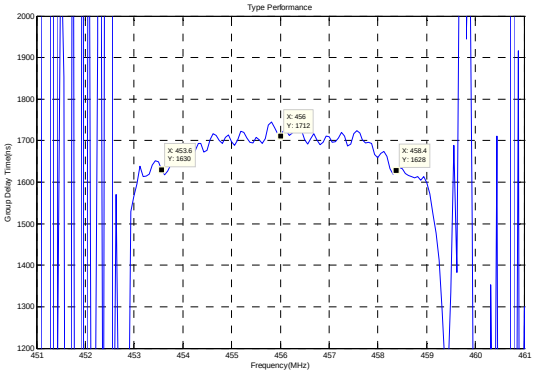
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



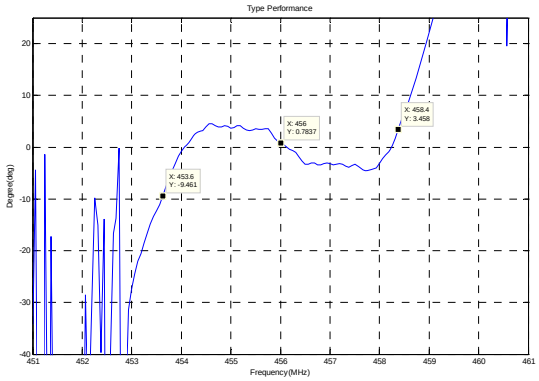
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±2.4MHz)



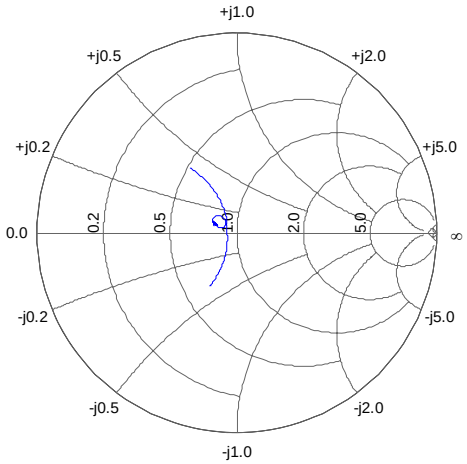
Horizontal: 1MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±2.4MHz)

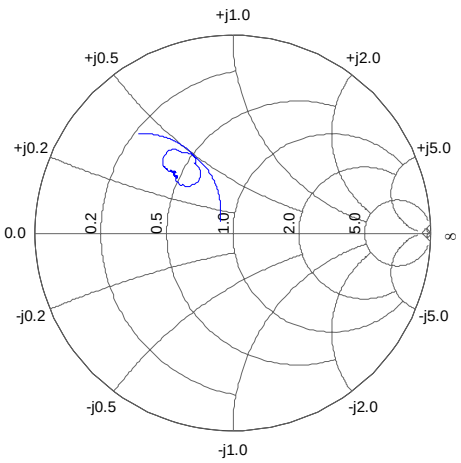


Horizontal: 1MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



Maximum Ratings

Operating Temperature Range	°C	[-40°C;+85°C]
Storage Temperature Range	°C	[-40°C;+105°C]
DC Voltage	V	0
Input Power	dBm	10 max
ESD Class		1