

1. Features

- Typical 1dB bandwidth of 21.45 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

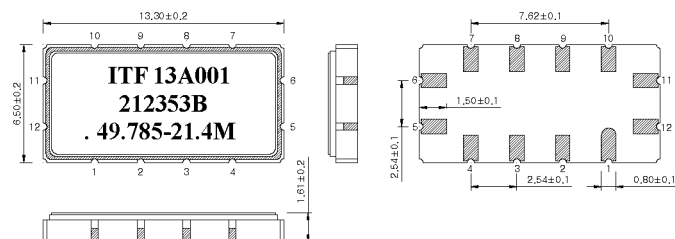
2. Electrical Specifications

Source and Load Impedance = 50Ω

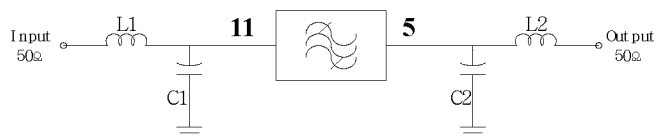
Room Temperature : +25°C

		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	49.785	-
Insertion Loss	dB	-	21.6	23.5
1dB Bandwidth	MHz	21.0	21.45	-
3dB Bandwidth	MHz	-	23.05	-
30dB Bandwidth	MHz	-	29.1	29.6
Amplitude Ripple (fo ± 9.535 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 9.535 MHz)	nsec	-	15	60
Absolute Delay	usec	-	0.63	0.65
Ultimate Rejection	dB	25	30	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

S1365 Package Dimension



Matching Schematic



L1 = 220nH, C1 = 1.5pF, C2 = 13pF, L2 = 270nH

Dimensions shown are nominal in millimeters

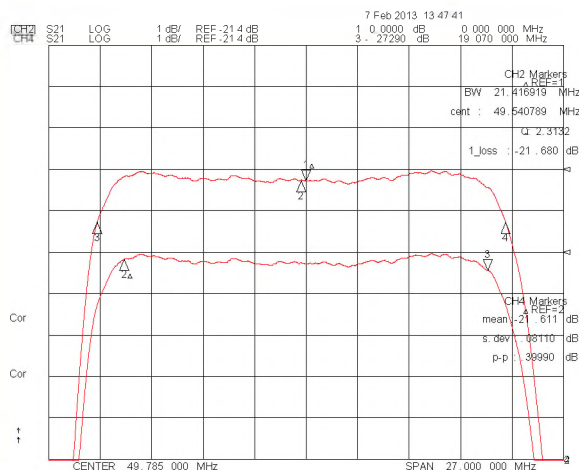
Body : Al₂O₃
 Lid : Kovar, Ni Plated
 Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin Configuration

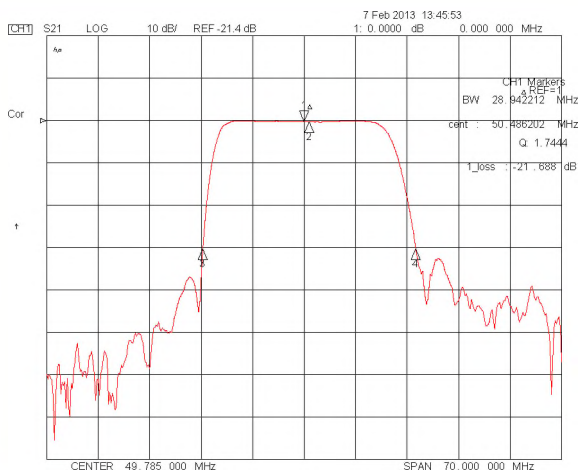
Input	11	Ground	6, 12
Output	5	Others	Ground

3. Typical Performance (at +25°C)

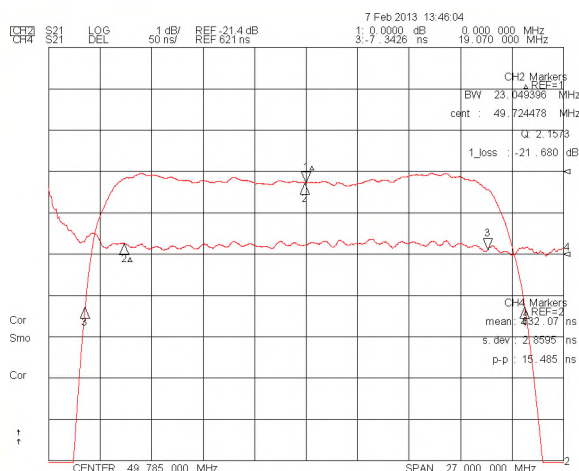
1dB Bandwidth & Ripple



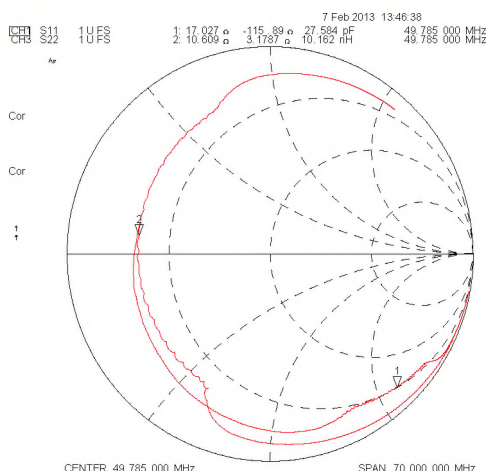
30dB Bandwidth



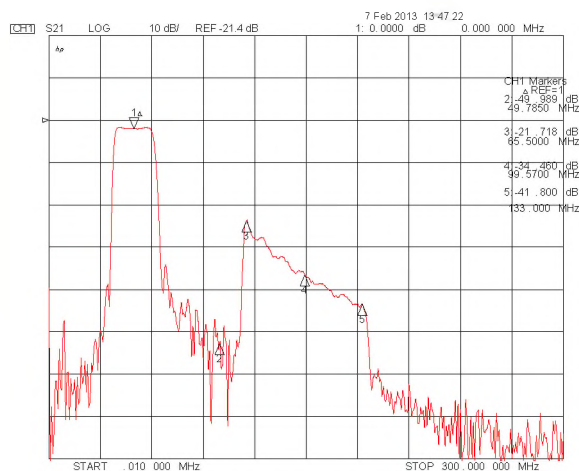
3dB Bandwidth & Group Delay



Smith Chart(S11 & S22)



Wide band Properties



SWR(S11 & S22)

