

# SPECIFICATION

COMMERCIALY AVAILABLE

ITEM: SAW FILTER  
PART NUMBER: SF0650012  
RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN
09/14/2023 <sup>(ASM)</sup>			

**FILTRONETICS Inc**

## 1. Electrical Specifications:

Room Temperature : +25°C		Source and Load Impedance = 50Ω		
		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	650.0	-
Insertion Loss (644.0 MHz ~ 656.0 MHz)	dB	-	2.0	3.5
Amplitude Ripple (644.0 MHz ~ 656.0 MHz)	dB	-	0.6	1.0
Group Delay Variation (644.0 MHz ~ 656.0 MHz)	nsec	-	-	100
Relative Attenuation (Relative to 0dB)				
At 525.0 MHz	dB	40	-	-
At 775.0MHz	dB	40	-	-

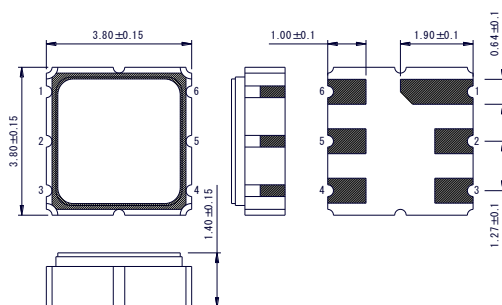
## Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	+25	+85
Storage Temperature Range	°C	-40	+25	+85
Maximum Input Power	dBm	-	-	+27

All specifications are based on simulation data and ITF reserves the right to amend the specification once sample filters are produced

## 2. Dimensions / Matching:

S3838 Package Dimension



Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Matching Schematic



Pin Configuration			
Input	2	Others	Ground
Output	5		

3. Typical Response Plots:

