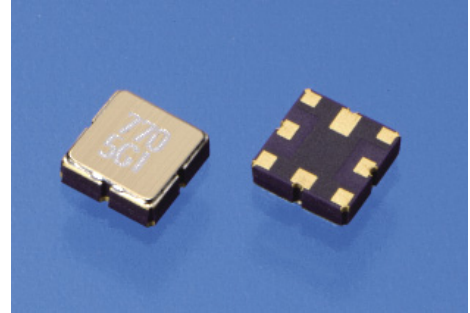


SAW Filter SL2525E Series for mobile phones accessible to terrestrial digital TV

SL2525E series is a LPF type SAW filter which passes reception band of terrestrial digital TV, and cuts transmission and reception signal of mobile phone. It packages a SAW element and an inductor in one vessel, and is operable without any external matching elements. The newly developed SL2525E770M898S27TA0 is compatible with CDMA2000 mobile phones, ensuring high attenuation in 898MHz~925MHz frequency range.



Features

1) Superior filtering characteristics

- Low loss characteristics in the terrestrial digital TV video signal band of 470~770MHz.
(2.4dB typ.)
- High attenuation characteristics in the mobile phone signal band of 898~925MHz.
(50dB typ)

2) Suitable for reduction in size and weight of a mobile phone handset with sophisticated features.

- Operable without any external matching elements such as inductors and capacitors.
- Suitable for reduction in size and weight of mobile phones because of unnecessary external matching elements.

3) In compliant with Restriction of Hazardous Substances (RoHS)

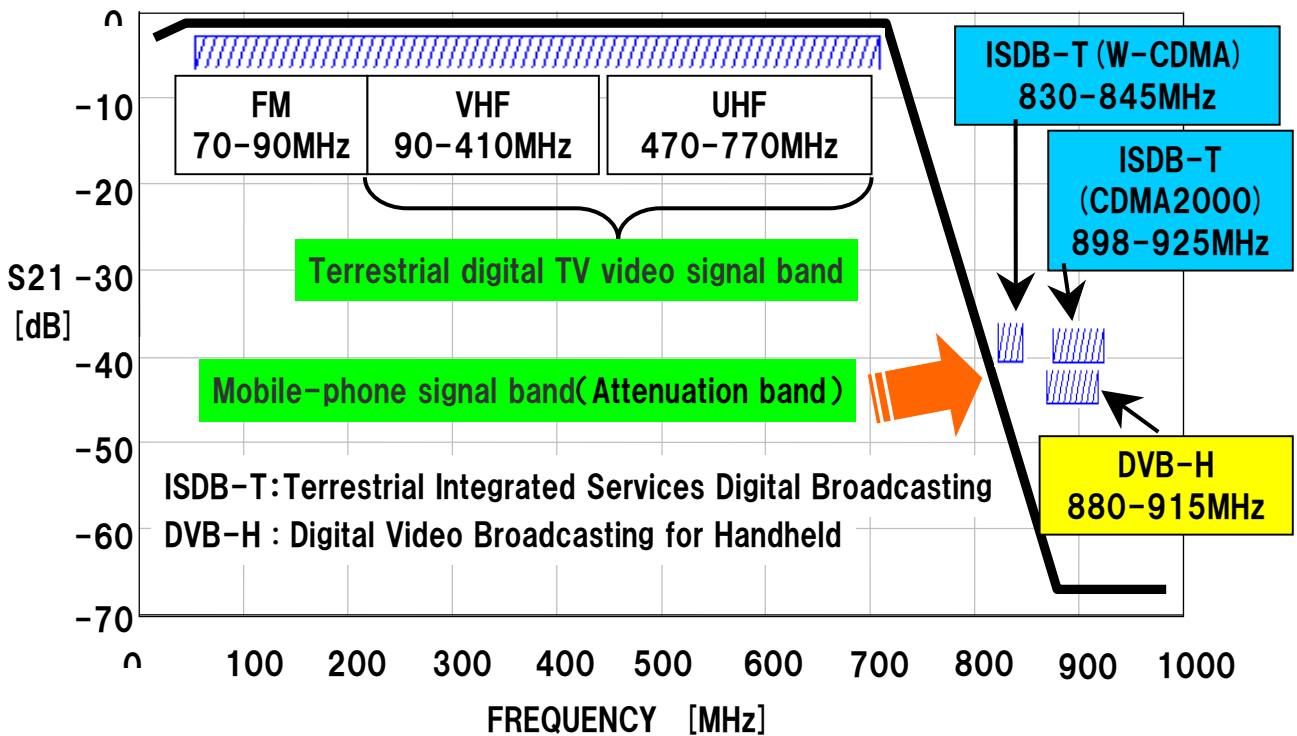
- Lead free component in compliant with RoHS.
- Compatible with reflow profiles for lead free soldering.

Product Overview

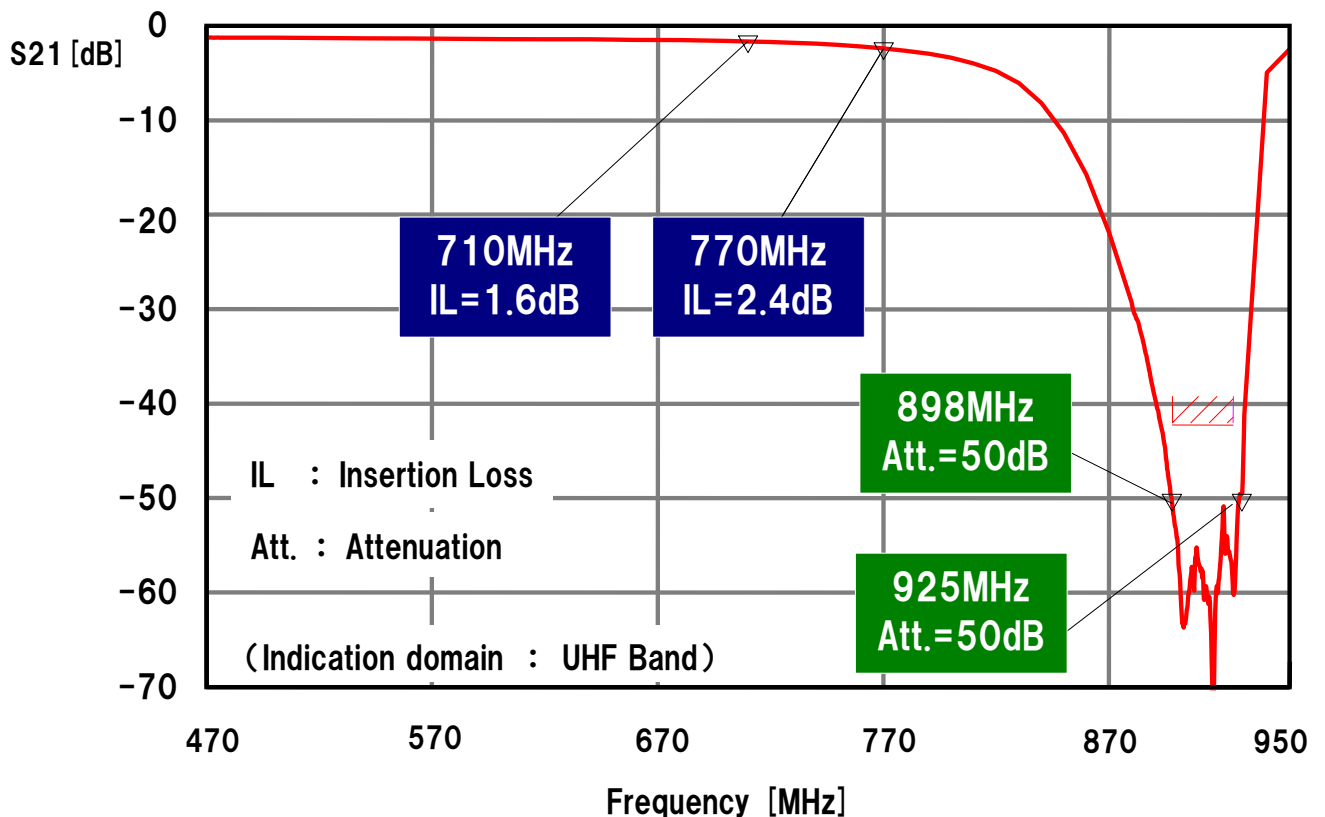
SL2525E series accommodates a SAW element and an inductor in one package, and hermetic sealed with Au-Sn material providing operation without any external matching elements.

It is highly reliable because of the Au-Sn hermetic sealing which avoids influence from the external environment.

Characteristics required for the filters (ISDB-T / DVB-H)



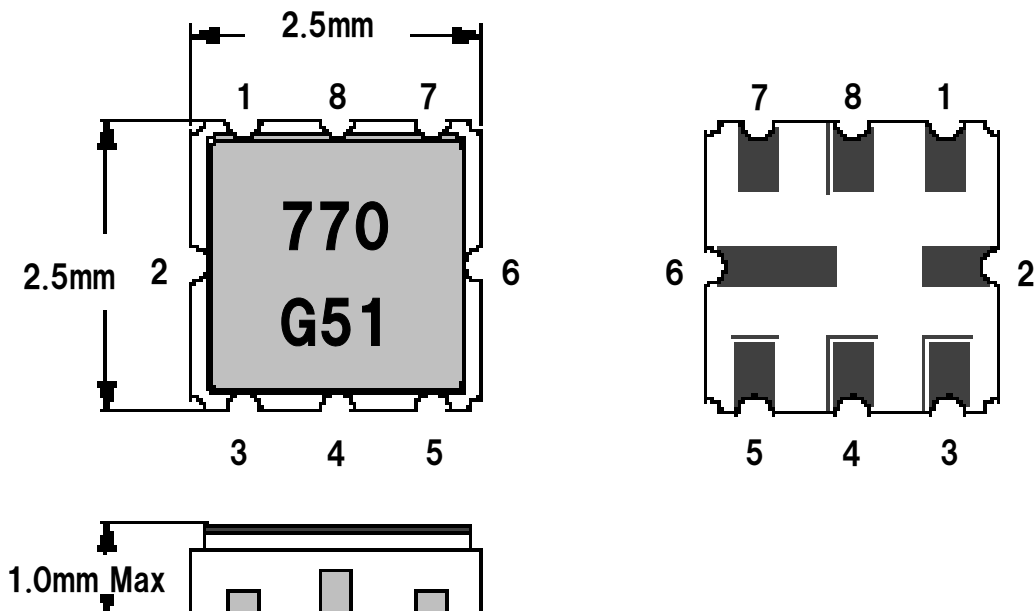
Actual measurement values of the developed SAW Filter in a CDMA2000 mobile phone



Specifications

No.	Items	Conditions	Specifications	Units
3-1	Pass band width		0~770	MHz
3-2	Insertion loss	470~710MHz	2.1 Max.	dB
		710~70MHz	3.2 Max.	dB
3-3	Attenuation	898~925MHz	42 Min.	dB
3-4	Return loss	470~770MHz	8.5 Min.	dB
3-5	Terminal impedance	(Typical)	50	ohm

Dimensions



Pin Configuration

No.1	GND	No.5	GND
No.2	GND	No.6	GND
No.3	GND	No.7	GND
No.4	OUT	No.8	IN