

SAW FILTER FOR CELLULAR / RF

TQS-530S-7G /-516EA-7G TQS-535AB-7G /-539A-7G

- Miniature size and low profile using FCB technology
- Balanced termination type and unbalanced termination type are available.
- Lead(Pb)-free : Lead free completely



Actual size

TQS-530S-7G

TQS-516EA-7G

TQS-535AB-7G

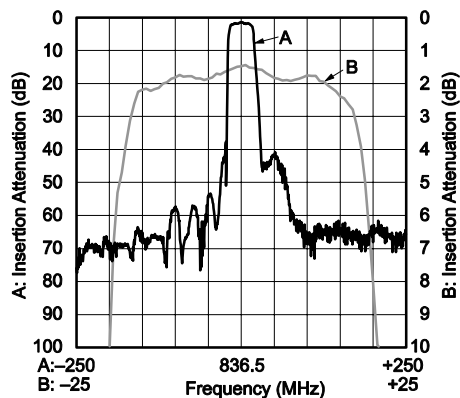
TQS-539A-7G

Specifications (characteristics)

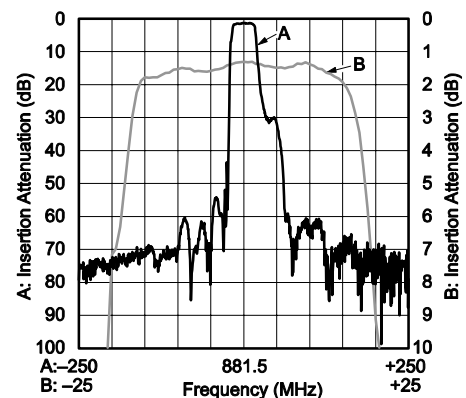
Item	Symbol	TQS-530S-7G	TQS-516EA-7G	TQS-535AB-7G	TQS-539A-7G
Nominal frequency	f ₀	836.5 MHz	881.5 MHz	881.5 MHz	906 MHz
Storage temperature range	T _{stg}	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Operating temperature range	T _{use}	-30 °C to +85 °C	-30 °C to +85 °C	-30 °C to +85 °C	-20 °C to +75 °C
Passband	BW	824 to 849 MHz	869 to 894 MHz	869 to 894 MHz	887 to 925 MHz
Insertion loss	IL	2.8 dB Max. (IL in passband)	2.4 dB Max. (IL in passband)	2.7 dB Max. (IL in passband)	3.5dB Max. (IL in passband)
Ripple	Ri	1.6 dBp-p Max.	1.2 dBp-p Max.	1.3 dBp-p Max.	2.0 dBp-p Max.
VSWR	—	2.0 Max.	2.0 Max.	2.0 Max.	3.2 Max.
Stop band attenuation (relative to through level)	—	DC to 800 MHz : 45 dB Min. 869 to 910 MHz : 38 dB Min. 910 to 2000 MHz : 45 dB Min. 2000 to 3000 MHz: 20 dB Min.	DC to 849 MHz : 45 dB Min. 914 to 954 MHz : 24 dB Min. 954 to 1200 MHz : 50 dB Min. 1200 to 2000 MHz: 40 dB Min. 2000 to 3000 MHz: 20 dB Min.	DC to 824 MHz : 47 dB Min. 824 to 849 MHz : 47 dB Min. 915 to 1000 MHz : 32 dB Min. 1000 to 1738 MHz: 42 dB Min. 1738 to 1788 MHz: 42 dB Min. 1788 to 3000 MHz: 37 dB Min.	DC to 761 MHz : 50 dB Min. 761 to 870 MHz : 38 dB Min. 1051 to 1092 MHz: 50 dB Min. 1092 to 3000 MHz: 23 dB Min.
Terminating impedance	Z	50 Ω (Unbalanced)	50 Ω (Unbalanced)	Input : 50 Ω (Unbalanced) Output : 100 Ω (Balanced)	50 Ω (Unbalanced)
Package		SS-2520(E)	SS-2520(E)	SS-2520(P)	SS-2520(E)

Electrical DATA

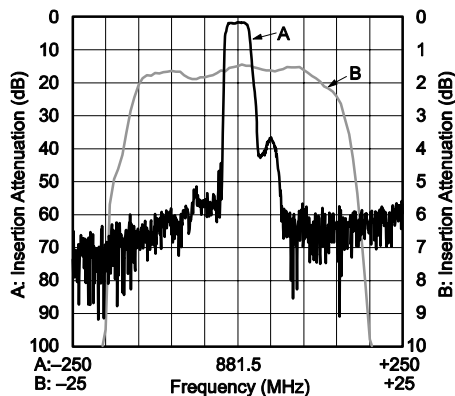
●TQS-530S-7G



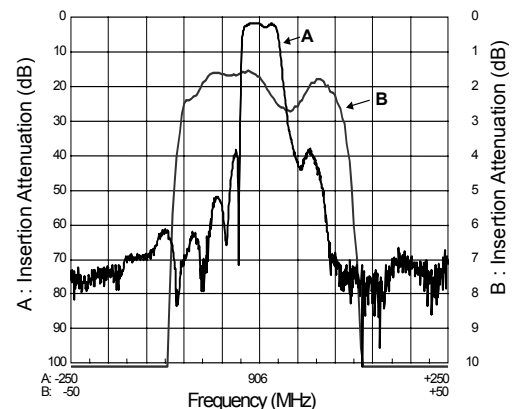
●TQS-516EA-7G



●TQS-535AB-7G



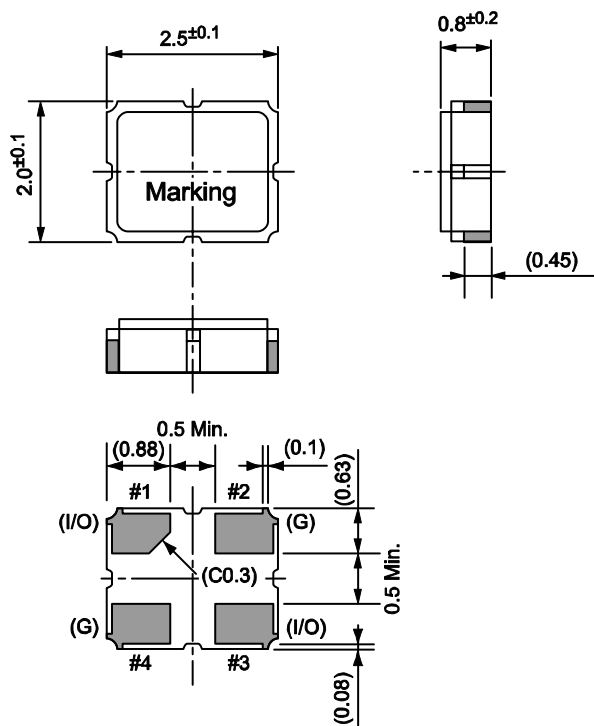
●TQS-539A-7G



External dimensions

(Unit :mm)

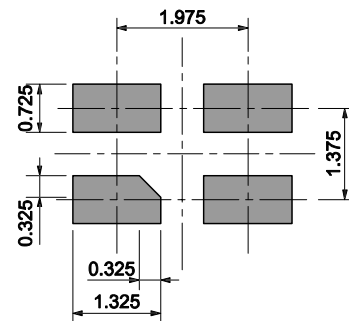
●SS-2520(E)



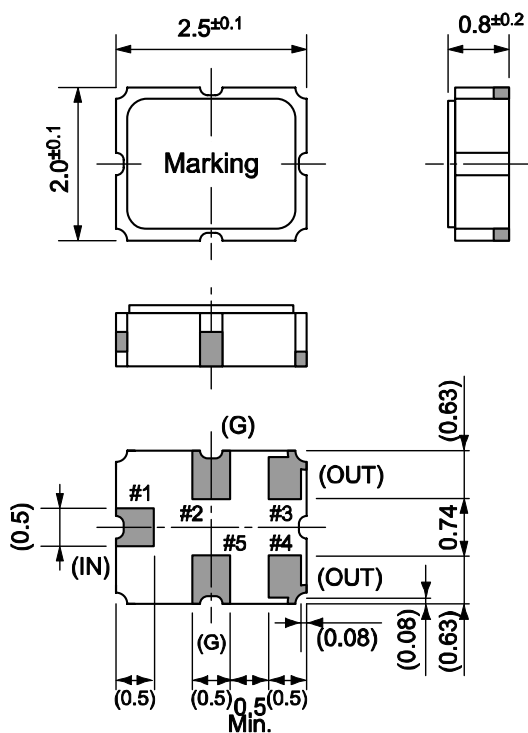
Footprint (Recommended)

(Unit :mm)

●SS-2520(E)



●SS-2520(P)



●SS-2520(P)

