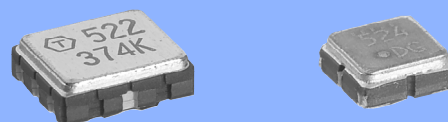


SAW FILTER FOR W-LAN / IF

TQS-457A-7R TQS-471BB-7R

- Excellent performance in small size with original design algorithm.
- Lead(Pb)-free : Lead free completely



Actual size

TQS-457A-7R

TQS-471BB-7R



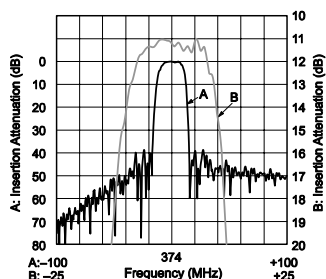
Specifications (characteristics)

Item	Symbol	TQS-457A-7R	TQS-471BB-7R
Nominal frequency	f_0	374 MHz	374 MHz
Storage temperature range	T_{stg}	-40 °C to +85 °C	-40 °C to +85 °C
Operating temperature range	T_{use}	-40 °C to +85 °C	-30 °C to +70 °C
Passband	BW	$f_0 \pm 8.5$ MHz Min. (3 dB relative to IL at f_0)	$f_0 \pm 8.5$ MHz Min. (3 dB relative to IL at f_0)
Insertion loss	IL	12 dB Max. (at f_0)	9 dB Max. (-30 °C to +30 °C) * (at f_0) 10 dB Max. (-30 °C to +70 °C) * (at f_0)
Deviation in PB	DEV	—	1.5 dB Max.
Ripple	Ri	1.5 dB Max.	1.5 dB Max.
Group delay distortion	GDD	100 ns Max.	100 ns Max.
Stop band attenuation	—	$f_0 \pm (16.5 \text{ to } 22)$ MHz : 30 dB Min. $f_0 \pm (22 \text{ to } 33)$ MHz : 33 dB Min. $f_0 \pm (33 \text{ to } 100)$ MHz : 38 dB Min.	$f_0 - 41.5$ MHz to $f_0 - 22$ MHz : 40 dB Min. $f_0 - 22$ MHz to $f_0 - 18$ MHz : 35 dB Min. $f_0 - 18$ MHz to $f_0 - 16.5$ MHz : 35 dB Min. $f_0 + 16.5$ MHz to $f_0 + 18$ MHz : 35 dB Min. $f_0 + 18$ MHz to $f_0 + 22$ MHz : 35 dB Min. $f_0 + 22$ MHz to $f_0 + 41.5$ MHz : 35 dB Min.
Terminating impedance	Z	Input : 160 Ω // -8 pF (Balanced or Unbalanced) Output : 50 Ω // -15 pF (Balanced or Unbalanced)	Input : 680 Ω // 88 nH (Balanced or Unbalanced) Output : 780 Ω // 120 nH (Balanced or Unbalanced)
Package	—	SS-541(L)	SS-30S1(D)

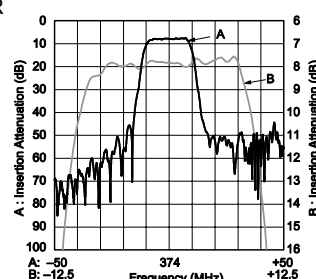
* Includes losses in matching circuit (Matching inductor size : 1.6 × 0.8 mm)

Electrical DATA

TQS-457A-7R



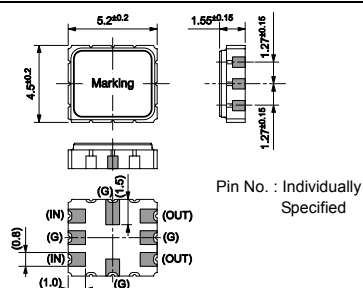
TQS-471BB-7R



External dimensions

(Unit : mm)

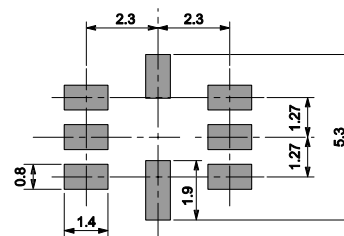
SS-541(L)



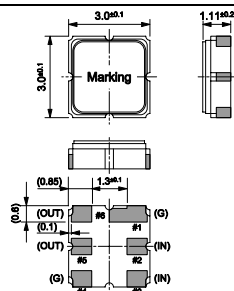
Footprint (Recommended)

(Unit : mm)

SS-541(L)



SS-30S1(D)



SS-30S1(D)

