

The ECS-HSF-246S is a SAW (surface acoustic wave) filter for 1st IF circuit for use in GSM (Global System for Mobile Communications.) This double mode SAW(DMS) filter offers low-loss characteristics for narrowband applications. It uses the low electro-mechanical coupling parameter of ST cut quartz crystals as piezo electric substrates. The ECS-HSF-246S offers peak stability at room temperature as well as sharp filtering for narrowband applications.

FEATURES

- Compact and low profile
- Flat pass band width
- Low insertion loss
- Tape & Reel (1,000 pcs)

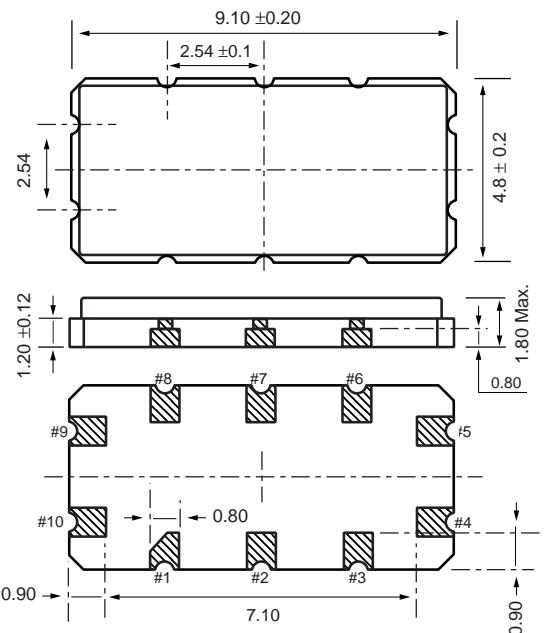
PART NUMBERING GUIDE

PART NUMBER
ECS-HSF-246S

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
CENTER FREQUENCY			246.000		MHz
3db BANDWIDTH		± 80			KHz
INSERTION LOSS				7	db
GAURANTEED ATTENUATION	@ $f_0 \pm (400\text{~}600\text{KHz})$	35			db
	@ $f_0 \pm (600\text{MHz}\text{--}1.6\text{MHz})$	38			db
	@ $f_0 \pm (1.6\text{MHz}\text{--}3.0\text{MHz})$	38			db
	@ $f_0 \pm (3.0\text{MHz}\text{--}25.0\text{MHz})$	48			db
RIPPLE	MHz			1.0	db
GROUP DELAY TOLERANCE	@ $f_0 \pm 80\text{KHz}$			2.5	$\mu\text{ sec.}$
MATCHING IMPEDANCE	740 ohm//1.7pF				
OPERATING TEMP. RANGE		-20°		$+75^\circ$	$^\circ\text{C}$
STORAGE TEMP. RANGE		-30°		$+85^\circ$	$^\circ\text{C}$

PACKAGE DIMENSIONS (mm)



PIN CONNECTIONS	
#1	GROUND
#2	GROUND
#3	GROUND
#4	OUTPUT
#5	GROUND
#6	GROUND
#7	GROUND
#8	GROUND
#9	INPUT
#10	GROUND

Figure 1) ECS-HSF-246S – Top, Side and Bottom views