

The ECS-HSF-400 is a SAW (surface acoustic wave) filter for 1st IF circuit for use in GSM (Global System Mobile) communication applications. This double mode SAW (DMS) filter offers low-loss characteristics for narrowband applications. Using low electro-mechanical coupling parameter of ST cut quartz crystals as piezo electric substrates, the ECS-HSF-400S 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)

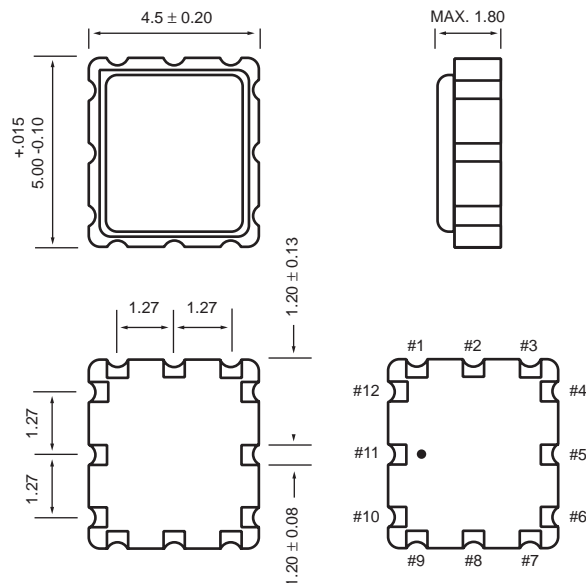
PART NUMBERING GUIDE

PART NUMBER
ECS-HSF-400S

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
CENTER FREQUENCY			400.000		MHz
3db BANDWIDTH		±80			KHz
INSERTION LOSS				7	db
GUARANTEED ATTENUATION	@ fo ±400KHz	20			db
	@ fo ±600KHz	35			db
	@ fo ±800KHz	40			db
	@ fo ±(1.0~3.0MHz)	35			db
	@ fo ±(3.0~20.0MHz)	45			db
	@ fo ±26MHz	67			db
RIPPLE	@ fo ±80kHz			1.5	db
GROUP DELAY TOLERANCE	@ fo ±80KHz			1.5	µsec
MATCHING IMPEDANCE	950 ohm/-1.8pF				
OPERATING TEMP. RANGE		-20°		+75°	°C
STORAGE TEMP. RANGE		-30°		+85°	°C

PACKAGE DIMENSIONS (mm)



ECS-HSF-400S – Top, Side and Bottom views

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