- Chip Type SMD Package
- RoHS Compliant (Note 7 Exemption)
- Built-in load capacitor
- Tape & Reel Packaging

ECS-HFR-B

SMD CERAMIC RESONATOR

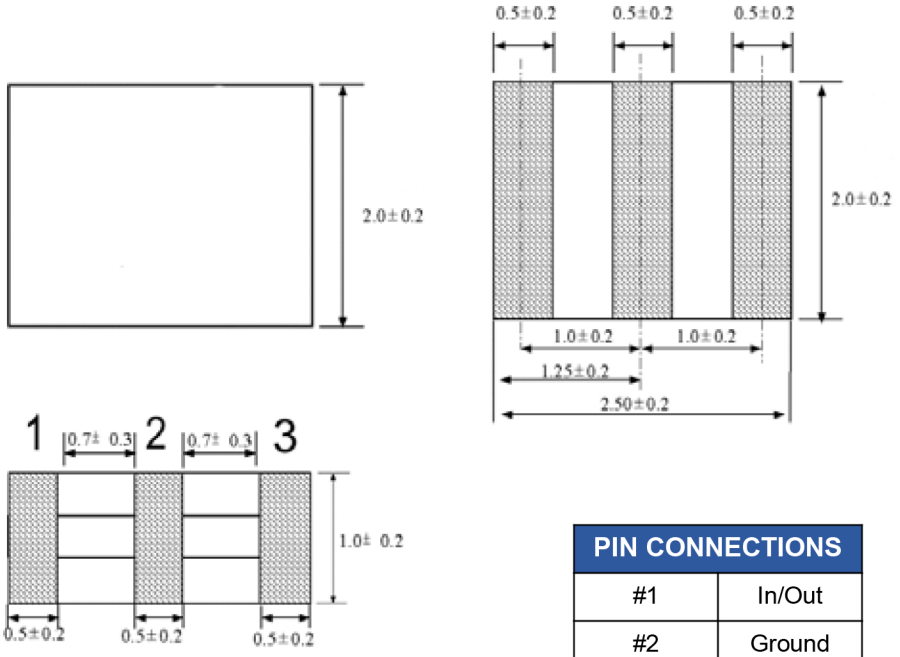
The ECS-HFR-B Series SMD ceramic resonator includes built in capacitors for reduced component count. The SMD Ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PART NUMBER *	FREQUENCY RANGE (MHz)	FREQUENCY ACCURACY @ 25°C (%)	FREQUENCY STABILITY -20 ~ +80°C (%)	AGING FOR TEN YEARS (%)	ESR (Ω) MAX.	BUILT-IN CAPACITANCE (C1 & C2)	IC
ECS-HFR-□□.□□-B	20.00 ~ 30.00	± 0.5	± 0.4	± 0.3	70	8 pF	1/6 TC74HCU04 x2
ECS-HFR-□□.□□-B	30.10 ~ 50.00	± 0.5	± 0.3	± 0.3	60	8 pF	

Complete part number to include frequency i.e. ECS-HFR-20.00-B

PACKAGE DIMENSIONS (mm)



PIN CONNECTIONS	
#1	In/Out
#2	Ground
#3	Out/In

Figure 1) ECS-HFR-B Series - Top, Side and Bottom Views

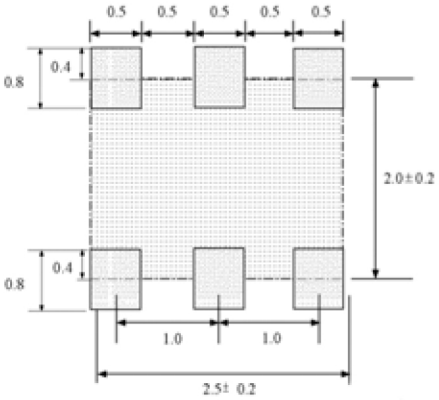


Figure 2) Land Pattern

PART NUMBERING GUIDE: "Example" ECS-HFR-20.00-B-TR

ECS -	Series	-	Frequency	-	Version	-	Packaging
	HFR = Chip Type		20.00 = 20.00 MHz		B = Built In Caps		TR = Tape & Reel