

TIONAL

## 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-DD.DD-B	20.00 ~ 30.00	± 0.5	± 0.4	± 0.3	70	8 pF	1/6 TC74HCU04
ECS-HFR-DD.DD-B	30.10 ~ 50.00	± 0.5	± 0.3	± 0.3	60	8 pF	x2

 $0.5 \pm 0.2$ 

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

## PACKAGE DIMENSIONS (mm)





-	1.0± ±0.2 ±0.2 2.50±0.2		±0.2
	PIN CON	NECTIONS	
	#1	In/Out	]
	#2	Ground	
	#3	Out/In	

 $0.5 \pm 0.2$ 

 $0.5 \pm 0.2$ 





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

