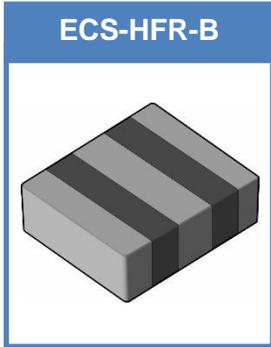


The ECS-HFR-B Series SMD ceramic resonator includes built in capacitors for reduced component count. The SMD Ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

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### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

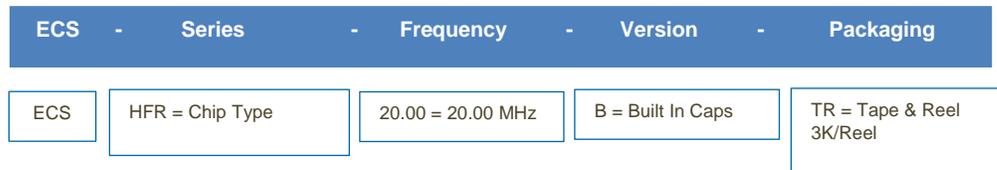


Part Number *	Frequency Range (MHz)	Frequency Accuracy @25°C (%)	Frequency Stability -20 ~ +80°C (%)	Aging for Ten Years (%)	ESR (Ω) MAX	Built-In Capacitance (C1 & C2)	IC
ECS-HFR-□□.□□-B	20.00 ~ 30.00	±0.5	±0.4	±0.3	70	8 pF	1/6 TC74HCU04x2
ECS-HFR-□□.□□-B	30.10 ~ 50.00	±0.5	±0.3	±0.3	60	8 pF	

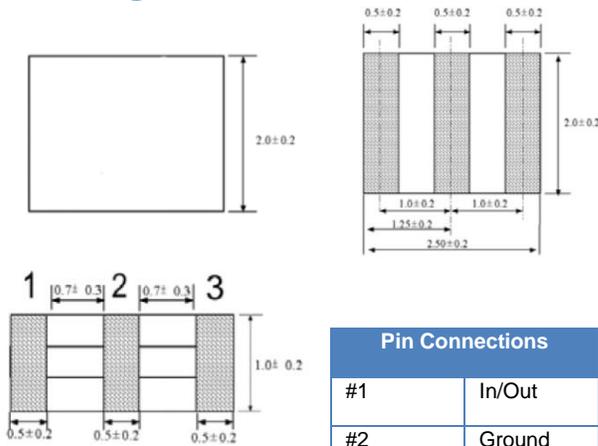
Complete part number to include frequency

### Part Numbering Guide: ECS-HFR-20.00-B-TR

- Chip Type SMD Package
- RoHS Compliant (Note 7 Exemption)
- Built-In Load Capacitor
- Tape & Reel Packaging



### Package Dimensions (mm)



Pin Connections	
#1	In/Out
#2	Ground
#3	Out/In

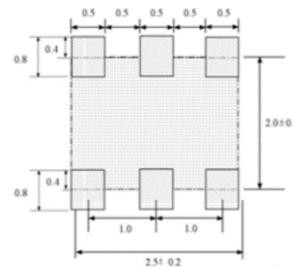


Figure 2) Land Pattern

Figure 1) Top, Side, and Bottom Views

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[ECS-CR2-20.00-A-TR](#) [RO3164E-3](#) [7D038400I01](#) [7B009843R01](#) [NX2012SA](#) [32.768KHZ STD-MUB-1](#) [NX3215SA](#) [32.768KHZ STD-MUS-2](#)  
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[4.19CRLB-C15-T3](#) [AWSCR-4.91CRLB-C15-T3](#) [AWSCR-5.00CPLA-C30-T4](#) [AWSCR-5.00CPLB-C30-T4](#) [AWSCR-5.00CRLA-C15-T3](#)  
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[X1A000091000500](#) [X1A0000910001](#) [ECS-SR1-4.19-B-TR](#) [7C024000HW1](#) [7C012000IW1](#) [7C012000MW1](#) [7C016000HW1](#)