



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



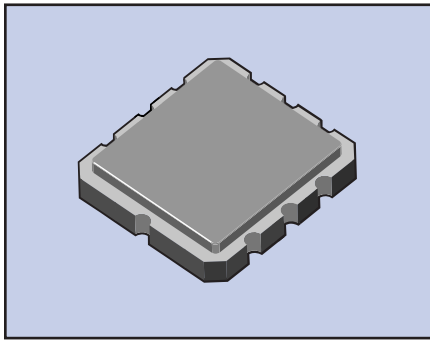
## Contact us

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## FEATURES

- Ideal for transmitter applications
- Quartz stability
- Ultra miniature SMD package
- PbFree/RoHS Compliant



## PART NUMBERING GUIDE "EXAMPLE"

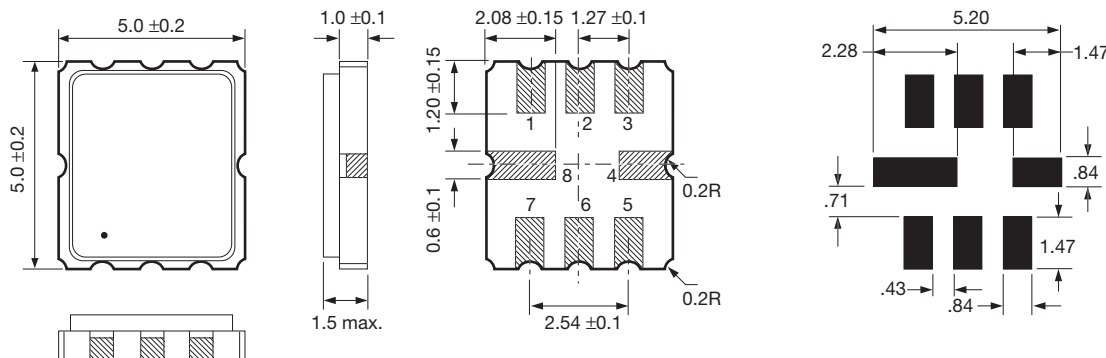
PART NUMBER	FREQUENCY ABBREVIATION (315.000 MHZ)	TAPE & REEL (1K/REEL)
ECS - 3150 - TR		

Sample Part Number: ECS-DR1-3150-TR

## OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-SDR1-3150			ECS-SDR1-4180			ECS-SDR1-4339			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
CENTER FREQUENCY (fo)		314.925	315.000	315.075	418.925	418.000	418.075	433.845	433.920	433.995	MHz
FREQUENCY TOLERANCE				± 75			± 75			± 75	KHz
INSERTION LOSS			1.5	2.2		1.6	2.0		1.5	2.5	dB
QUALITY FACTOR	Unloaded		12,200			12,100			11,000		Q
	50Ω Unloaded		1,500			2,000			2,000		Q
TEMPERATURE STABILITY	Temperature Coefficient		0.032			0.032			0.032		ppm/°C
FREQUENCY AGING			<± 10			<± 10			<± 10		ppm/Yr
DC INSULATION RESISTANCE		1.0			1.0			1.0			MΩ
MOTIONAL RESISTANCE	R <sub>1</sub>		14	25		20	26		18	26	Ω
MOTIONAL INDUCTANCE	L <sub>1</sub>		86			91			86		pH
MOTIONAL CAPACITANCE	C <sub>1</sub>		2.95			1.6			1.56		fF
SHUNT CAPACITANCE	C <sub>0</sub>		2.4	2.7		2.0	2.3		2.0	2.3	pF
OPERATING TEMPERATURE		-40		+85	-40		+85	-40		+85	°C
STORAGE TEMPERATURE		-40		+85	-40		+85	-40		+85	°C

## PACKAGE DIMENSIONS (mm)



PIN CONNECTIONS	
#1	No Connect
#2	Input
#3	No Connect
#4	Ground
#5	No Connect
#6	Output
#7	No Connect
#8	Ground