ECS Microprocessor Crystals

RoHS Compliant This product is RoHS compliant.

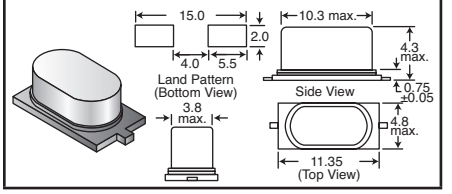
CSM-7 HC49SM

The CSM-7 is an excellent choice for the SMD version of the HC-49US leaded crystal. The CSM-7 has a case height of 4.3mm maximum in a resistance weld metal package.

Specifications:
- Frequency tolerance: ±30ppm
- Extended temp.: +25°C to ±30ppm
- Shunt capacitance: 7.0pF
- Load capacitance: specified or series
- Operating temp. range: -10°C to +70°C
- Industrial range: -40°C + 85°C (50ppm)
- Storage temp.: -30°C to +85°C

Features:
- Cost effective
- Space saving design
- Low profile

DIMENSIONS: mm

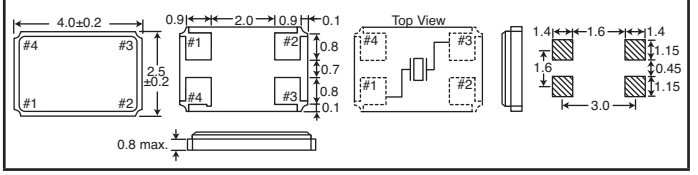


For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part Number	Frequency (MHz)	Load Cap.	Price Each 1	10	100	500
520-CSM400-20-X	ECS-40-20-5PX	4.000000	20pf	.41	.30	.253	.248
520-CSM737-20-X	ECS-73-20-5PX	7.372800	20pf	.41	.30	.253	.248
520-CSM800-18-X	ECS-80-18-5PX	8.000000	18pf	.41	.30	.253	.248
520-CSM1105-20-X	ECS-110.5-20-5PX	11.059200	20pf	.41	.30	.253	.248
520-CSM1600-S-X	ECS-160-S-5PX	16.000000	Series	.41	.30	.253	.248
520-CSM2000-20-X	ECS-200-20-5PX	20.000000	20pf	.41	.30	.253	.248
520-CSM2500-18-X	ECS-250-18-5PX	25.000000	18pf	.41	.30	.253	.248
Extended Temperature Range (-40°C to + 85°C ± 100ppm)							
520-CSM800-18DN-X	ECS-80-18-5PX-DN	8.000000	18pf	1.29	.94	.80	.78
520-CSM1200-20DN-X	ECS-120-20-5PX-DN	12.000000	20pf	1.29	.94	.80	.78
Extended Temperature Range (-40°C to + 85°C ± 50ppm)							
520-35-18-5PXEN	ECS-35-18-5PXEN	3.579545	18pf	.58	.518	.414	.368
520-40-18-5PXEN	ECS-40-18-5PXEN	4.000000	18pf	.58	.518	.414	.368
520-60-18-5PXEN	ECS-60-18-5PXEN	6.000000	18pf	.58	.518	.414	.368
520-73-18-5PXEN	ECS-73-18-5PXEN	7.372800	18pf	.58	.518	.414	.368
520-110.5-18-5PXEN	ECS-110.5-18-5PXEN	11.059200	18pf	.58	.518	.414	.368
520-160-18-5PXEN	ECS-160-18-5PXEN	16.000000	18pf	.58	.518	.414	.368
520-200-18-5PXEN	ECS-200-18-5PXEN	20.000000	18pf	.58	.518	.414	.368
520-240-18-5PXEN	ECS-240-18-5PXEN	24.000000	18pf	.58	.518	.414	.368

CSM-7SSX LOW PROFILE SMD CRYSTAL

DIMENSIONS: mm



Specifications: • 2.6mm height • Industry std. footprint • Operating temp.: -10°C to +70°C

For quantities greater than listed, call for quote.

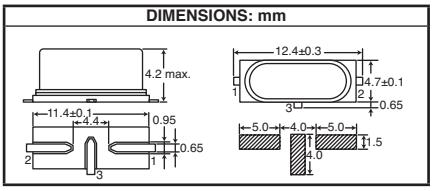
MOUSER STOCK NO.	ECS Part Number	Frequency (MHz)	Load Cap.	Price Each 1	10	100	500	Reel 1000
520-160-9-42-CKM-T	ECS-160-9-42-CKM-TR	16.000	9	1.65	1.48	1.23	.99	.82
520-320-13-42-CKM-T	ECS-320-13-42-CKM-TR	32.000	13	1.74	1.56	1.29	1.04	.87

ZIGBEE/BLUETOOTH CRYSTALS

The miniature ECX-42 is a compact SMD crystal. The 4.0 x 2.5 x 0.8mm ceramic package is ideal or today's SMD manufacturing environment.

Specifications:
- Low profile
- 4.0 x 2.5mm footprint
- Extended temp. range option
- Operating temp.: -10°C to +70°C

DIMENSIONS: mm



For quantities greater than listed, call for quote.

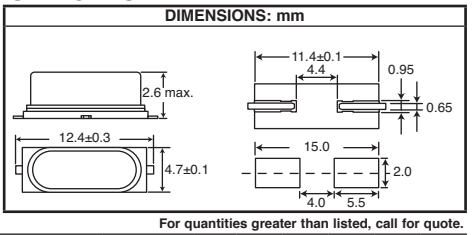
520-ECS-40-20-5GXT	ECS-40-20-5G3XDS-TR	4.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-60-20-5GXT	ECS-60-20-5G3XDS-TR	6.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-80-20-5GXT	ECS-80-20-5G3XDS-TR	8.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-100-20-5G3XT	ECS-100-20-5G3XDS-TR	10.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-1105-20-5GXT	ECS-110.5-20-5G3XDS-TR	11.059200	20pf	1.05	.92	.78	.63	.52
520-ECS-120-18-5GXT	ECS-120-18-5G3XDS-TR	12.000000	18pf	1.05	.92	.78	.63	.52
520-ECS-160-20-5GXT	ECS-160-20-5G3XDS-TR	16.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-200-20-5GXT	ECS-200-20-5G3XDS-TR	20.000000	20pf	1.05	.92	.78	.63	.52
520-ECS-250-20-5G3XT	ECS-250-20-5G3XDS-F-TR	25.000000	20pf	1.05	.92	.78	.63	.52

CSM-7X-3L SMD CRYSTAL

The CSM-7X-3L is a low profile SMD crystal with case ground. Ideal for applications that require a case ground.

Specifications:
- Case ground
- Industry std. HC-49US package
- Extended temp. range option
- Operating temp.: -10°C to +70°C

DIMENSIONS: mm

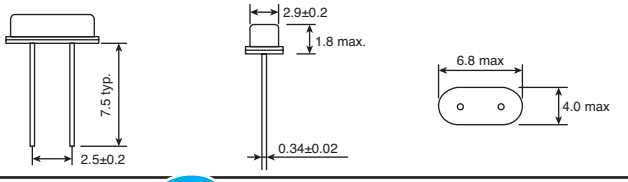


For quantities greater than listed, call for quote.

520-ECS-80-20-5PVX	ECS-80-20-5PVX	8.000000	20pf	1.56	1.36	1.17	1.04	.931
520-ECS-120-18-5PVX	ECS-120-18-5PVX	12.000000	18pf	1.56	1.36	1.17	1.04	.931
520-ECS-250-20-5PVX	ECS-250-20-5PVX	25.000000	20pf	1.56	1.36	1.17	1.04	.931
520-ECS-270-20-5PVX	ECS-270-20-5PVX	27.000000	20pf	1.56	1.36	1.17	1.04	.931

ECS HC-46X QUARTZ CRYSTALS

DIMENSIONS: mm



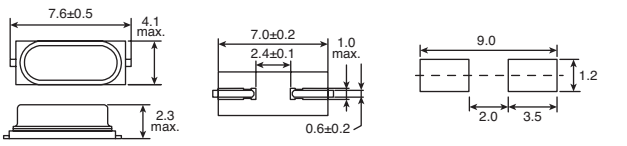
PRODUCT NEW

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part Number	Frequency (MHz)	Price Each 1	10	50	100
520-120-20-46X	ECS-120-20-46X	12.0000	.46	.39	.325	.26
520-147.4-20-46X	ECS-147.4-20-46X	14.7456	.46	.39	.325	.26
520-160-20-46X	ECS-160-20-46X	16.0000	.46	.39	.325	.26
520-184-20-46X	ECS-184-20-46X	18.4320	.46	.39	.325	.26
520-200-20-46X	ECS-200-20-46X	20.0000	.46	.39	.325	.26
520-245.7-20-46X	ECS-245.7-20-46X	24.5760	.46	.39	.325	.26
520-250-20-46X	ECS-250-20-46X	25.0000	.46	.39	.325	.26
520-270-20-46X	ECS-270-20-46X	27.0000	.46	.39	.325	.26
520-400-20-46X	ECS-400-20-46X	40.0000	.49	.42	.35	.28

ECS CSM-3X QUARTZ CRYSTALS

DIMENSIONS: mm



PRODUCT NEW

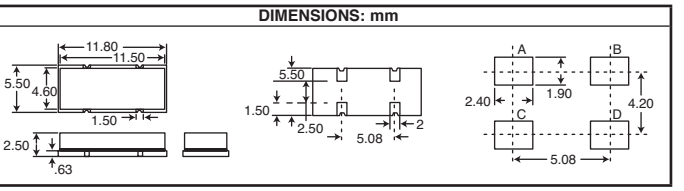
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part Number	Frequency (MHz)	Price Each 1	10	50	100
-10°C to + 70°C						
520-120-20-3XT	ECS-120-20-3X-TR	12.00	.53	.45	.399	.315
520-122.8-20-3XT	ECS-122.8-20-3X-TR	12.288	.53	.45	.399	.315
520-130-20-3XT	ECS-130-20-3X-TR	13.00	.53	.45	.399	.315
520-135.6-20-3XT	ECS-135.6-20-3X-TR	13.56	.53	.45	.399	.315
520-143-20-3XT	ECS-143-20-3X-TR	14.31818	.53	.45	.399	.315
520-147.4-20-3XT	ECS-147.4-20-3X-TR	14.7456	.53	.45	.399	.315
520-160-20-3XT	ECS-160-20-3X-TR	16.00	.53	.45	.399	.315
520-184-20-3XT	ECS-184-20-3X-TR	18.432	.53	.45	.399	.315
520-196.6-20-3XT	ECS-196.6-20-3X-TR	19.6608	.53	.45	.399	.315
520-200-20-3XT	ECS-200-20-3X-TR	20.00	.53	.45	.399	.315
520-250-20-3XT	ECS-250-20-3X-TR	25.00	.53	.45	.399	.315
520-270-20-3XT	ECS-270-20-3X-TR	27.00	.53	.45	.399	.315
520-300-20-3XT	ECS-300-20-3X-TR	30.00	.53	.45	.399	.315
- 40°C to + 85°C						
520-120-20-3XENT	ECS-120-20-3X-EN-TR	12.00	.60	.52	.456	.36
520-122.8-20-3XENT	ECS-122.8-20-3X-EN-TR	12.288	.60	.52	.456	.36
520-135.6-20-3XENT	ECS-135.6-20-3X-EN-TR	13.56	.60	.52	.456	.36
520-147.4-20-3XENT	ECS-147.4-20-3X-EN-TR	14.7456	.60	.52	.456	.36
520-160-20-3XENT	ECS-160-20-3X-EN-TR	16.00	.60	.52	.456	.36
520-184-20-3XENT	ECS-184-20-3X-EN-TR	18.432	.60	.52	.456	.36
520-196.6-20-3XENT	ECS-196.6-20-3X-EN-TR	19.6608	.60	.52	.456	.36
520-200-20-3XENT	ECS-200-20-3X-EN-TR	20.00	.60	.52	.456	.36
520-250-20-3XENT	ECS-250-20-3X-EN-TR	25.00	.60	.52	.456	.36
520-270-20-3XENT	ECS-270-20-3X-EN-TR	27.00	.60	.52	.456	.36
520-300-20-3XENT	ECS-300-20-3X-EN-TR	30.00	.60	.52	.456	.36

CSM-12 SMD CRYSTALS

Specifications:
• Low profile • Operating temp: -40°C to +85°C • 11.8 x 5.5mm footprint

DIMENSIONS: mm



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part Number	Frequency (MHz)	Load Cap.	Price Each 1	10	100	500	Reel 1000
520-36-18-18-TR	ECS-36-18-18-TR	3.686400	18pf	2.37	2.12	1.77	1.42	1.07
520-40-18-18-TR	ECS-40-18-18-TR	4.000000	18pf	2.37	1.98	1.78	1.58	1.03
520-60-18-18-TR	ECS-60-18-18-TR	6.000000	18pf	2.37	2.12	1.77	1.42	1.07
520-73-18-18-TR	ECS-73-18-18-TR	7.372800	18pf	2.37	2.12	1.77	1.42	1.07
520-100-18-18-TR	ECS-100-18-18-TR	10.000000	18pf	2.37	2.12	1.77	1.42	1.07
520-120-18-18-TR	ECS-120-18-18-TR	12.000000	18pf	2.37	2.12	1.77	1.42	1.07
520-147.4-18-18-TR	ECS-147.4-18-18-TR	14.745600	18pf	2.37	2.12	1.77	1.42	1.07
520-160-18-18-TR	ECS-160-18-18-TR	16.000000	18pf	2.37	2.12	1.77	1.42	1.07
520-200-18-18-TR	ECS-200-18-18-TR	20.000000	18pf	2.37	2.12	1.77	1.42	1.07
520-250-18-18-TR	ECS-250-18-18-TR	25.000000	18pf	2.37	2.12	1.77	1.42	1.07

© Copyright 2012 Mouser Electronics

© Copyright 2012 Mouser Electronics