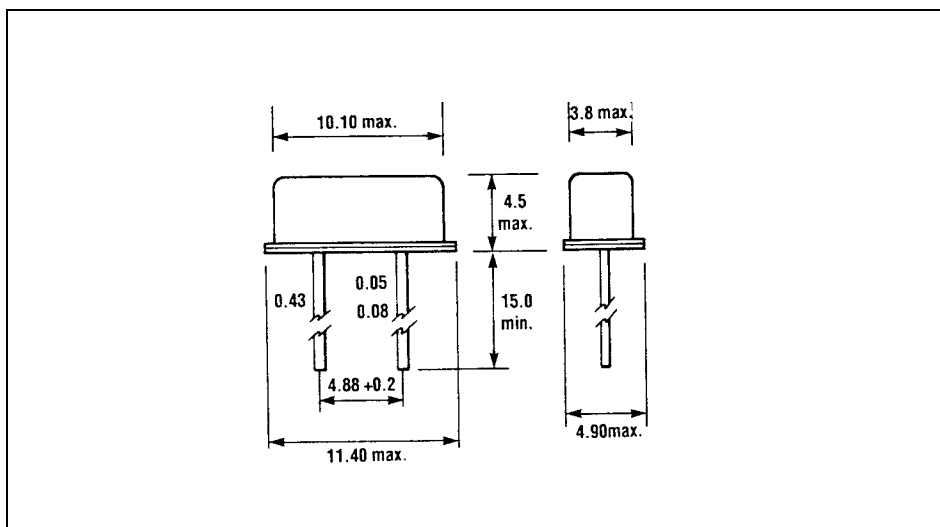


Crystals

Order code	Manufacturer code	Description
90-0305	n/a	3.6864MHZ HC-49/S L/P CRYSTAL (RC)
90-0310	n/a	4.0MHZ HC-49/S L/P CRYSTAL (RC)
90-0315	n/a	4.194304MHZ HC-49/S LP CRYSTAL (RC)
90-0320	n/a	4.9152MHZ HC-49/S L/P CRYSTAL (RC)
90-0322	n/a	6.0MHZ HC-49/S L/P CRYSTAL (RC)
90-0325	n/a	7.3728MHZ HC-49/S L/P CRYSTAL (RC)
90-0340	n/a	8.0MHZ HC-49/S L/P CRYSTAL (RC)
90-0345	n/a	n/a
90-0350	n/a	11.0592MHZ HC-49/S L/P CRYSTAL RC
90-0370	n/a	16.0MHZ HC-49/S L/P CRYSTAL (RC)
90-0372	NC494/3.579545/20	3.579545MHZ HC-49/S CRYSTAL LOW PROF RC
90-0374	NC494/4.433619/20	4.433619MHZ HC-49/SCRYSTAL LOWPROFILE RC
90-0376	NC494/9.8304/30	9.8304MHZ HC-49/S CRYSTAL LOW PROFILE RC
90-0378	NC494/10.000/30	10.0MHZ HC-49/S CRYSTAL LOW PROFILE.(RC)
90-0380	NC494/12.000/30	12.0MHZ HC-49/S LOW PROFILE (RC)
90-0382	NC494/20.000/30	20.0MHZ HC-49/S LOW PROFILE (RC)
90-0384	NC494/24.000/30	24.0MHZ HC-49/S CRYSTAL LOW PROFILE RC
90-0386	NC494/24.576/30F	24.576MHZ SERIES HC-49/SCRYSTAL LOW/PRRC
90-0388	n/a	14.3181MHZ HC-49/US RC
90-0390	n/a	14.7456MHZ HC-49/US (RC)
90-0392	n/a	18.432MHZ HC-49/US (RC)
90-0394	n/a	32.00MHZ HC-49/US.(RC)
90-0460	n/a	5.00MHZ HC-49/S L/P CRYSTAL RC
90-0462	n/a	7.68MHZ HC-49/S L/P CRYSTAL (RC)
90-0464	n/a	9.216MHZ HC-49/S L/P CRYSTAL (RC)
90-0466	n/a	NON ROHS 15.00MHZ HC-49/S L/P CRYSTAL
90-0468	n/a	16.9344MHZ HC-49/S L/P CRYSTAL
90-1070	n/a	3.579545MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1072	n/a	3.6864MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1074	n/a	4.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1076	n/a	6.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1078	n/a	8.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1080	n/a	10.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1082	n/a	16.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-1084	n/a	20.00MHZ HC49/S CRYSTAL +-20PPM (RC)
90-3056	JO1228IOEADFL	12.288MHZ HC49/US CRYSTAL LOW PROFILE RC
90-3058	JO1773IOEEAFL	17.73447MHZ HC49/USCRYSTAL LOWPROFILE RC
90-3060	JO1966IOEDAFL	19.6608MHZ HC49/US CRYSTAL LOWPROFILE RC
90-3062	JO2211IOEADFL	22.1184 MHZ HC49/US CRYSTAL LOWPROFILERC
90-3064	JO2500IOEADFL	25.00MHZ HC49/US CRYSTAL LOW PROFILE RC

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The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

Dimensions (mm):



Specification (characteristics):

PARAMETERS	SPECIFICATIONS		CONDITIONS
Frequency Range	Fo	3.20MHz – 72.00MHz	
Frequency Mode		Fundamental / 3 rd Overtone	
Frequency Tolerance	$\Delta f/f_o$	±5ppm, ±10ppm, ±15ppm, ±30ppm, ±50ppm, ±100ppm	@ 25°C,
Operating Temperature	Topr	-10°C to +70°C Typical	
Storage Temperature	Tstg	-40°C to +85°C	
Temperature Stability	$\Delta f/f_o$	±5ppm, ±10ppm, ±15ppm, ±30ppm, ±50ppm, ±100ppm	Over -20°C to +70°C,
Equivalent Series Resistance	R1	See Table below	
Load Capacitance	CL	12-32pF	Please specify
Shunt Capacitance	Co	7pF Max.	
Drive Level	DL	1.0mW ±0.2mW	
Insulation Resistance	IR	500MΩ	@ DC100V
Ageing (First Year)	Fa	±5ppm max	@ 25°C

Frequency (MHz)	ESR (W) Max	Mode
3.2-3.50	300	Fund.
3.579545-3.6864	150	Fund.
4.0-4.433619	120	Fund.
4.608~5.120	100	Fund.
6.0~6.14	70	Fund.
6.750~8.00	60	Fund.
9.216~9.8304	50	Fund.
10.0~12.288	40	Fund.
14.31818~32.0	40	Fund.
25-30	150	3 rd OT
30-50	100	3 rd OT
50-72	80	3 rd OT