

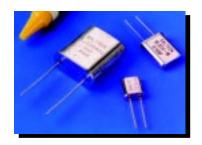
FEATURES

- EXCELLENT CLOCK SIGNAL GENERATOR FOR CPU's
- WIDE FREQUENCY RANGE
- INDUSTRY STANDARD PACKAGES

SERIES A, B, C HC-49/U, HC-51/U, AND UM-1

SPECIFICATIONS

FREQUENCY RANGE		100.00 KHz TO 300.00 MHz					
	A: HC-49/U	1.00 MHz TO 300.00 MHz					
HOLDER TYPES	B: HC-51/U	100.00 KHz TO 4.00 MHz					
	C: UM-1	8.00 MHz TO 300.00 MHz					
FREQUENCY TOLERANCE AT	25 °C	±30 PPM TYPICAL ±50 PPM MAXIMUM					
FREQUENCY STABILITY OVER	TEMPERATURE	±50 PPM TYPICAL ±100 PPM MAXIMUM					
ODEDATING TEMPEDATURE R	ANOF	-20 °C TO +70 °C STANDARD					
OPERATING TEMPERATURE R	ANGE	-40° C TO +85 °C EXTENDED					
STORAGE TEMPERATURE RANGE		-55 °C TO +125 °C					
AGING		±5 PPM PER YEAR MAXIMUM					
LOAD CAPACITANCE		10 TO 32 pF 0R SERIES					
SHUNT CAPACITANCE		7 pF MAXIMUM					
EQUIVALENT SERIES RESISTANCE (ESR)		SEE PAGE 11					
DRIVE LEVEL		0.1 mW TYPICAL 1 mW MAXIMUM					
		±5 PPM MAXIMUM 75 cm DROP TEST IN 3 AXES ONTO A HARD SURFACE OR 1000 g's x 0.5 ms x ½ SINEWAVE IN 3 AXES					



FREQUENCY RANGE AND MODE OF OSCILLATION BY HOLDER TYPE

HOLDER TYPE	FUNDAMENTAL (FUND)	THIRD OVERTONE (3OT)	FIFTH OVERTONE (5OT)	SEVENTH OVERTONE (7OT)	NINTH OVERTONE (9OT)
TYPE A: HC-49/U	1.00 MHz TO 65.00 MHz	20.00 MHz TO 90.00 MHz	60.00 MHz TO 130.00 MHz	125.00 MHz TO 200.00 MHz	180.00 MHz TO 300.00 MHz
TYPE B: HC-51/U	100.00 KHz TO 4.00 MHz				
TYPE C: UM-1	8.00 MHz TO 65.00 MHz	25.00 MHz TO 90.00 MHz	60.00 MHz TO 130.00 MHz	125.00 MHz TO 200.00 MHz	180.00 MHz TO 300.00 MHz

PART NUMBERING SYSTEM

			PACITANCE MODE				TEMPERATURE
A HC-49/U - B HC-51/U C UM-1	IN MHz	10 TO 32pF FOR PARALLEL S FOR SERIES	-	F 3OT 5OT 7OT 9OT	FUNDAMENTAL THIRD OVERTONE FIFTH OVERTONE SEVENTH OVERTONE NINTH OVERTONE	1	EXT

MECHANICAL OPTIONS							TAPE AND REEL	
THREE PIN BASE		THIRD LEAD (TOP OF HOUSING)	-	SPACER		SLEEVE	-	TR
3PIN		3RD		SP		SL		

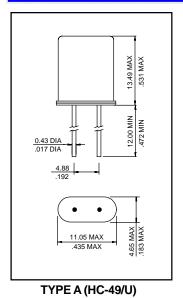
† FUNDAMENTAL MODE NOT NEEDED IN PART NUMBER

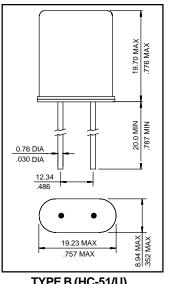
EXAMPLE: A-4.000-S

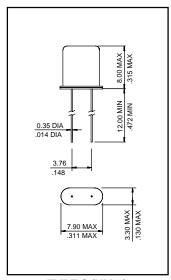
A-3.579545-18-EXT-3PIN-SP-SL-TR

C-65.000-S-30T





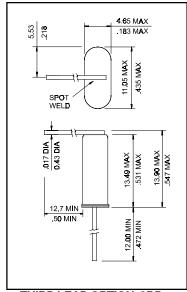




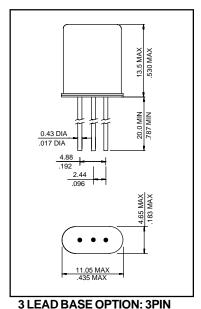
TYPE B (HC-51/U)

TYPE C (UM-1)

PACKAGE OPTIONS

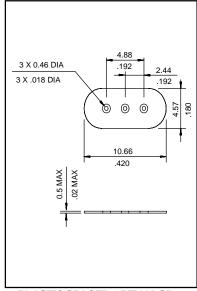






13.49 MAX .531 MAX TRANSPARENT PLASTIC 12.00 MIN .472 MIN 0.43 DIA .017 DIA 4.75 MAX .187 MAX TRANSPARENT PLASTIC SLEEVING 11.05 MAX .435 MAX

PLASTIC SLEEVE OPTION: SL



PLASTIC SPACER OPTION: SP

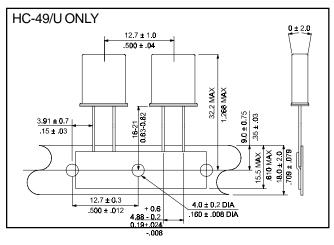


EQUIVALENT SERIES RESISTANCE VERSUS FREQUENCY AND PACKAGE

FREQUENCY MHz	Н	ESR				
1711 12	HC-51/U "B"	HC-49/U "A"	UM-1 "C"	"B"	"A"	"C"
1.000	В	А		700	700	
1.843	В	Α		600	700	'
2.000	В	Α		500	500	
2.097152	В	Α		500	500	,
2.4576	В	Α		400	400	
3.000	В	Α		150	200	
3.2768	В	Α		150	180	
3.579545	В	Α		120	180	
3.600	В	Α		100	160	
3.6864	В	Α		100	140	
4.000	В	Α		50	80	,
4.096		Α			80	
4.194304		Α			80	
4.433619		Α			80	
4.9152		Α			60	
5.000		Α			60	
5.0688		Α			60	
5.185		Α			60	'
5.7143		Α			50	
5.9904	1	Α			50	'
6.000	1	Α			50	'
6.144		Α			40	
6.400		Α			40	'
6.5536	1	Α			40	
7.000		Α			30	'
7.15909	1	Α			30	'
7.3728		Α			30	
8.000	1	Α			30	'
9.216		Α			30	·
9.8304		Α			30	'
10.000		Α	С		25	50
10.738635		Α	С	1	25	50
11.000		Α	С		25	50
11.050		Α	С	Ī	25	50

FREQUENCY MHz	Н	OLDER TYPE	ESR				
IVII IZ	HC-51/U "B"	HC-49/U "A"	UM-1 "C"	"B"	"A"	"C"	
11.059	110 0 170 2	Α	C		25	50	
12.000		A	Ċ		25	40	
12.288		A	Ċ		25	40	
13.5168		Α	С		25	40	
14.31818		А	C		25	35	
14.7456		Α	C		25	35	
15.000		Α	C		25	35	
16.000		Α	С		25	30	
16.384		Α	С		25	35	
17.360		Α	С		25	30	
18.000		Α	С	•	20	25	
18.432		Α	С		20	30	
19.354		Α	С		20	30	
19.6608		Α	С		20	30	
20.000		Α	С		20	30	
22.1184		А	С		20	25	
23.400		Α	С		20	25	
24.000		Α	С		20	25	
24.576		Α	С		30	25	
25.000		Α	С		30	20	
27.000		Α	С		30	20	
30.000		Α	С		30	20	
32.000		Α	С		30	60	
36.000		Α	С		30	60	
40.000		Α	С		30	50	
48.000		Α	С		30	50	
60.000		Α	С		30	40	
70.000		Α	С		30	40	
80.000		Α	С		30	40	
90.000		Α	С		40	40	
100.000		Α	С		40	100	
150.000		Α	С		50	70	
200.000		Α	С		100	120	
300.000		Α	С		150	180	

CARRIER TAPE DIMENSIONS



PACKAGING

370 mm REEL DIAMETER, 18 mm TAPE WIDTH, 12.7 mm PITCH, QUANTITY 1000 PIECES PER REEL