

### ● FEATURES

- EXCELLENT CLOCK SIGNAL GENERATOR FOR CPU's
- AVAILABLE IN EXTENDED TEMPERATURE RANGE
- LOW PROFILE SURFACE MOUNT

### SERIES AS-SMD

### ● SPECIFICATIONS

FREQUENCY RANGE		3.20 MHz TO 70.00 MHz
MODE OF OSCILLATION	FUNDAMENTAL	3.20 MHz TO 40.320 MHz
	THIRD OVERTONE	24.576 MHz TO 70.00 MHz
FREQUENCY TOLERANCE AT 25°C		±30 PPM TYPICAL ±50 PPM MAXIMUM
FREQUENCY STABILITY OVER TEMPERATURE RANGE		±50 PPM TYPICAL ±100 PPM MAXIMUM
OPERATING TEMPERATURE RANGE		-20° C TO +70° C STANDARD
		-40° C TO +85° C EXTENDED
STORAGE TEMPERATURE RANGE		-55° C TO +125° C
AGING		±5 PPM PER YEAR MAXIMUM
LOAD CAPACITANCE		10 pF TO 32 pF OR SERIES
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE
DRIVE LEVEL		0.1 mW TYPICAL
REFLOW CONDITIONS		260° C FOR 10 s MAXIMUM



### ● TYPICAL FREQUENCIES AND ESR CHARACTERISTICS

FREQUENCY (MHz)	ESR MAX (OHM)	MODE	FREQUENCY (MHz)	ESR MAX (OHM)	MODE	FREQUENCY (MHz)	ESR MAX (OHM)	MODE	FREQUENCY (MHz)	ESR MAX (OHM)	MODE
3.579545	180	FUND	8.064	60	FUND	14.7456	50	FUND	47.920	70	3OT
3.6864	150	FUND	8.192	60	FUND	16.000	40	FUND	48.000	70	3OT
4.000	130	FUND	8.6436	60	FUND	16.000312	40	FUND	50.688	70	3OT
4.032	130	FUND	9.600	60	FUND	16.384	40	FUND	52.416	70	3OT
4.096	130	FUND	9.8304	60	FUND	19.6608	40	FUND	56.448	70	3OT
4.194304	130	FUND	10.000	50	FUND	20.000	40	FUND	60.000	70	3OT
4.433619	130	FUND	10.240	50	FUND	24.000	40	FUND	70.000	70	3OT
4.9152	130	FUND	10.244	50	FUND	24.576	40/80	FUND/3OT			
5.0688	100	FUND	10.245	50	FUND	27.000	40/80	FUND/3OT			
6.000	80	FUND	11.000	50	FUND	28.63636	40/80	FUND/3OT			
6.144	80	FUND	11.0592	50	FUND	29.000	40/70	FUND/3OT			
6.176	80	FUND	11.2896	50	FUND	32.000	40/70	FUND/3OT			
7.15909	70	FUND	12.000	50	FUND	32.768	40/70	FUND/3OT			
7.3728	70	FUND	12.288	50	FUND	36.000	40/70	FUND/3OT			
7.680	70	FUND	12.800	50	FUND	40.000	40/70	FUND/3OT			
8.000	60	FUND	14.31818	50	FUND	40.320	40/70	FUND/3OT			

### ● PART NUMBERING SYSTEM

HOLDER TYPE		FREQUENCY	LOAD CAPACITANCE	MODE*	
AS	HC-49 SHORT	IN MHz	10 TO 32 pF FOR PARALLEL S FOR SERIES	F	FUNDAMENTAL
				3OT	THIRD OVERTONE

TOLERANCE/STABILITY**	EXTENDED TEMPERATURE	CONFIGURATION		HEIGHT**		TAPE AND REEL
(PPM/PPM) EXAMPLES: 1020, 1010	EXT	SMD	SMD TYPE	STD	4.6 mm (STANDARD)	TR
				H32	3.2 mm (CUSTOM)	
				H30	3.0 mm (CUSTOM)	
				H25	2.5 mm (CUSTOM)	

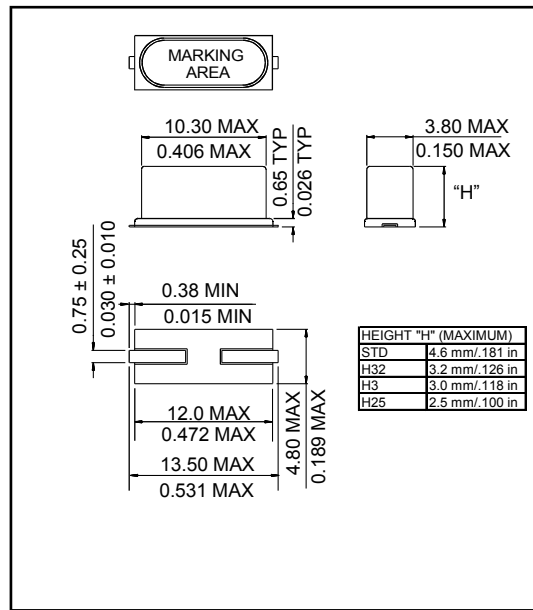
\* ONLY FOR FREQUENCIES OVER 24.576 MHz

\*\* INCLUDED IN THE PART NUMBER ONLY IF DIFFERENT FROM THE STANDARD.

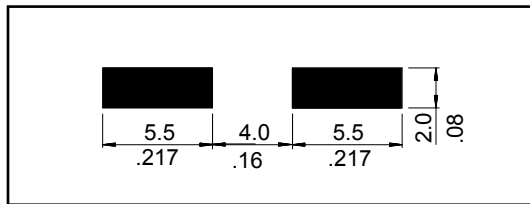
EXAMPLES: AS-10.000-20-F-SMD-TR, AS-32.000-18-3OT-1010-EXT-SMD-H30-TR

NOTE: QUANTITIES UNDER 1,000 PIECES ARE SHIPPED IN BULK.

● **OUTLINE DRAWING**

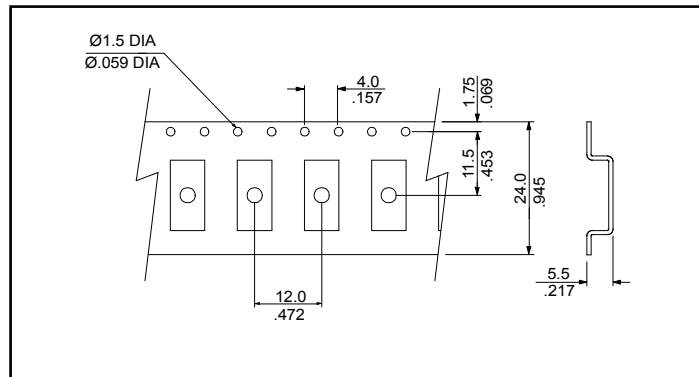


● **RECOMMENDED SOLDER PATTERN**



● **CARRIER TAPE DIMENSIONS**

330 mm REEL DIAMETER  
24 mm TAPE WIDTH  
12 mm PITCH  
1000 PIECES PER REEL



● **REFLOW SOLDERING PROFILE**

