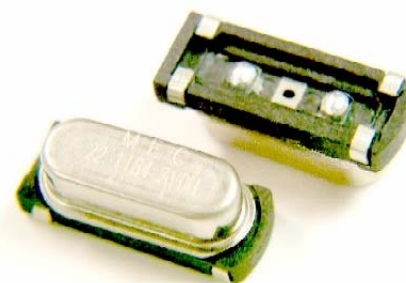


- MP4 and MP5 surface mount crystals feature metal can low profile crystal mounted on a plastic molded lead frame base.
- Available in EIA-481A-2 24 mm tape and reel. 1000 pcs per reel.



SPECIFICATIONS

Crystal Holder Prefix:	<i>MP4</i> (4.25 mm height) and <i>MP5</i> (5.25 mm height)					
Mode of Oscillation:	3.5 ~ 30.0 MHz AT-cut Fundamental mode 30.1 ~ 70.0 MHz AT-cut 3 rd Overtone mode 25.0 ~ 40.0 MHz BT-cut Fundamental mode					
Calibration Tolerance:	±30ppm (±0.003 %) at 25°C					
Frequency Stability:	AT-cut: ±30 ppm (±0.003 %) over -10 to +60°C BT-cut: ±100 ppm (±0.01 %) over -10 to +60°C					
Shunt Capacitance (Co):	7 pF maximum					
Equivalent Series Resistance (E.S.R.)	Frequency	Osc. Mode	ESR max.	Frequency	Osc. mode	ESR max.
	3.20 ~ 3.56	AT funda.	200 Ω	9.0 ~ 12.99	AT funda.	60 Ω
	3.57 ~ 3.99	AT funda.	180 Ω	13.0 ~ 15.99	AT funda.	50 Ω
	4.0 ~ 4.99	AT funda.	150 Ω	16.0 ~ 30.00	AT funda.	40 Ω
	5.0 ~ 5.99	AT funda.	120 Ω	27.0 ~ 40.00	BT funda.	40 Ω
	6.0 ~ 6.99	AT funda.	100 Ω	30.0 ~ 70.00	AT 3 rd O/T	100 Ω
	7.0 ~ 8.99	AT funda.	80 Ω			
Load Capacitance (CL):	Series (S) or Parallel (If parallel, please specify CL value, typical CL ranges from 8 to 32pF)					
Drive Level:	0.5 mW maximum					
Aging:	Less than ±5ppm per year. at +25°C.					
Reflow Soldering:	10 seconds maximum at +260°C					
Storage Temperature:	-30 to +85°C					

Note: Tighter tolerance, tighter stability and lower ESR are available.

MERCURY www.mercury-crystal.com

Taiwan: TEL (886)-2-2695-7099, FAX (886)-2-2695-7473, e-mail: sales-tw@mercury-crystal.com

U.S.A.: TEL (1)-909-466-0427, FAX (1)-909-466-0762, e-mail: sales-us@mercury-crystal.com

STANDARD FREQUENCIES AND PART NUMBERS (partial frequency list only. Frequency tolerance, frequency stability and ESR can be specified per your requirements).

Change MP5 to MP4 if 4.25 mm overall height required.

<u>MEC Part Number</u>	<u>MEC Specification Code</u>	<u>MEC Part Number</u>	<u>MEC Specification Code</u>
MP5-3.579545-18P	50/50/-10+70/200R	MP5-16.000312-32P	50/50/-10+70/50R
MP5-3.6864-20P	50/50/-10+70/200R	MP5-18.432-S	50/50/-10+70/50R
MP5-4.000-20P	50/50/-10+70/150R	MP5-19.6608-S	50/50/-10+70/50R
MP5-4.032-20P	50/50/-10+70/150R	MP5-20.000-20P	50/50/-10+70/50R
MP5-4.096-20P	50/50/-10+70/150R	MP5-24.000-S	50/50/-10+70/50R
MP5-4.433619-18P	50/50/-10+70/150R	MP5-24.576-S	50/50/-10+70/50R
MP5-4.9152-18P	50/50/-10+70/150R	MP5-29.4912AF-S	50/50/-10+70/50R (AT-cut Fund.)
MP5-5.0688-18P	50/50/-10+70/150R	MP5-30.000A3-S	50/50/-10+70/140R (AT-cut 3 rd O/T)
MP5-6.000-18P	50/50/-10+70/100R	MP5-30.000A3-S	50/50/-10+70/140R (AT-cut 3 rd O/T)
MP5-6.144-18P	50/50/-10+70/100R	MP5-32.000A3-S	50/50/-10+70/140R (AT-cut 3 rd O/T)
MP5-7.3728-18P	50/50/-10+70/100R	MP5-36.000A3-S	50/50/-10+70/100R (AT-cut 3 rd O/T)
MP5-8.000-18P	50/50/-10+70/100R	MP5-40.000A3-S	50/50/-10+70/100R (AT-cut 3 rd O/T)
MP5-9.8304-20P	50/50/-10+70/100R	MP5-29.4912BF-S	50/100/-10+70/50R (BT-cut Funda.)
MP5-11.0592-20P	50/50/-10+70/80R	MP5-30.000BF-S	50/100/-10+70/40R (BT-cut Funda.)
MP5-12.000-18P	50/50/-10+70/80R	MP5-36.000BF-S	50/100/-10+70/40R (BT-cut Funda.)
MP5-14.31818-18P	50/50/-10+70/50R	MP5-40.000BF-S	50/100/-10+70/40R (BT-cut Funda.)
MP5-14.7456-S	50/50/-10+70/50R		

PACKAGE DIMENSIONS AND SUGGESTED PAD LAYOUT

Unit: mm [inches]

