

- Frequency range 3.20MHz to 70.0MHZ
- Fully RoHS compliant
- Two height profiles available, 4.8 or 3.8mm
- Standard EIA tape and reel supply

DESCRIPTION

MP24 and MP25 crystals provide an ideal source of low frequency clock signals (from 3.5MHz) in a low-profile SMD package. The part is electrically and mechanically compatible with traditional industry SMD packages and may be used as a 'drop-in' replacement.

Note: MP24 and MP25 crystals are designed for top board assembly and one solder reflow process. Do not mount this part with the can mounted downwards.

SPECIFICATION

Fre	equency Range AT-Cut Fundamental:	3.20MHz to 48.0MHz			
	AT-Cut 3rd Overtone:	27.0MHz to 70.0MHz			
	BT-Cut Fundamental:	24.0MHz to 48.0MHz			
Co	libration Tolerance at 25°C*:	from ±10ppm at 25°C (±30ppm standard)			
Fre	equency stability				
	AT-Cut from:	±10ppm over-10° to +60°C			
	BT-Cut from:	±50ppm over -10° to +60°C			
Sto	orage Temperature:	-40°~+85°C			
Eq	uivalent Series Resistance:	See table			
Sh	unt Capacitance (C0):	7pF maximum			
Lo	ad Capacitance (CL):	Series or from 8pF to 32pF			
		(Customer specified CL)			
Ag	jeing:	<±3ppm per year at +25°C			
Dr	ive level:	$100\mu W$ typical, $500\mu W$ maximum			
Re	flow Soldering:	10s maximum at 260°C twice or 180s at 230°C, once.			
Pa	ckaging:	24mm EIA tape and reel, 1k per.			

EQUIVALENT SERIES RESISTANCE

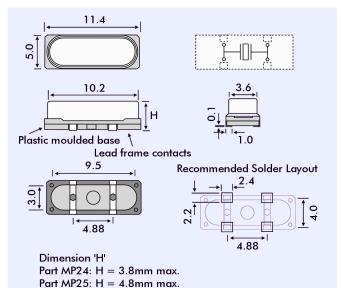
Frequency Range MHz 27.0~30.0 30.1~50.0
30 1~50 0
30.1.30.0
50.1~70.0

Frequency Range MHz	ESR Ohms Max.				
27.0~30.0	150				
30.1~50.0	100				
50.1~70.0	80				
AT-Cut 3rd Overtone					
	overlienc				
Frequency	ESR				

11.4 x 5.0mm SMD Crystal



OUTLINE & DIMENSIONS



PART NUMBER FORMAT

Example:	MP24 - 16	.000 - 1	2 - 30,	/50/-20	+70/100	DR
Package MP24 or MP25						
Frequency in MH	z ———					
Load Capacitanc (Either SR for seri						
Calibration toler at 25°C (±ppm)	ance					
Temperature Sta over temp. range						
Operating Temp (Lower and uppe						
Equivalent Series (Optional - use w value is required)	hen special					

MERCURY ELECTRONICS EUROPE Blacknell Lane CREWKERNE Somerset UK TA18 7HE Tel: +44 (0)1460 230010 Fax: +44 (0)1460 230011, info@mecxtal-europe.com, www.mecxtal-europe.com