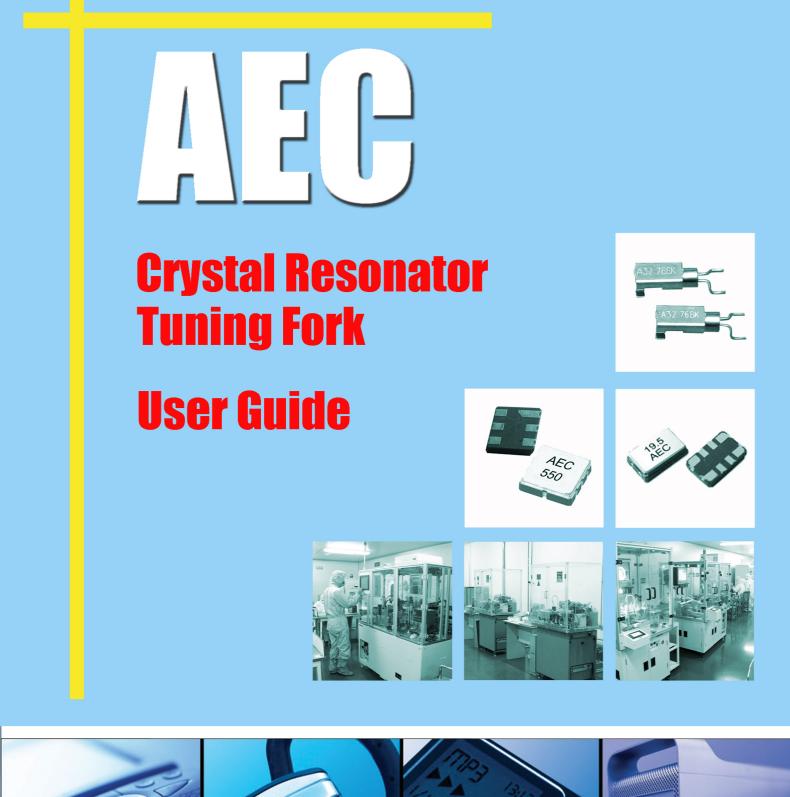
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Abundance Enterprise Company



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AEC Product Guideline

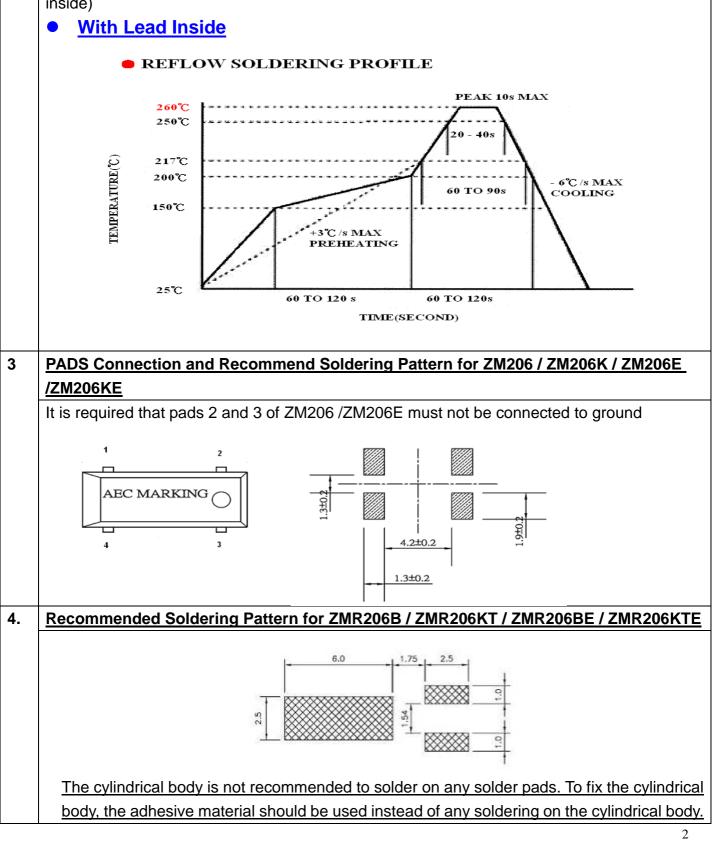
The following instructions and information are provided for the purpose of having the user understand the proper way to process our crystal products to prevent problem prior to use and enhance the reliability of the equipment to which they are applied.

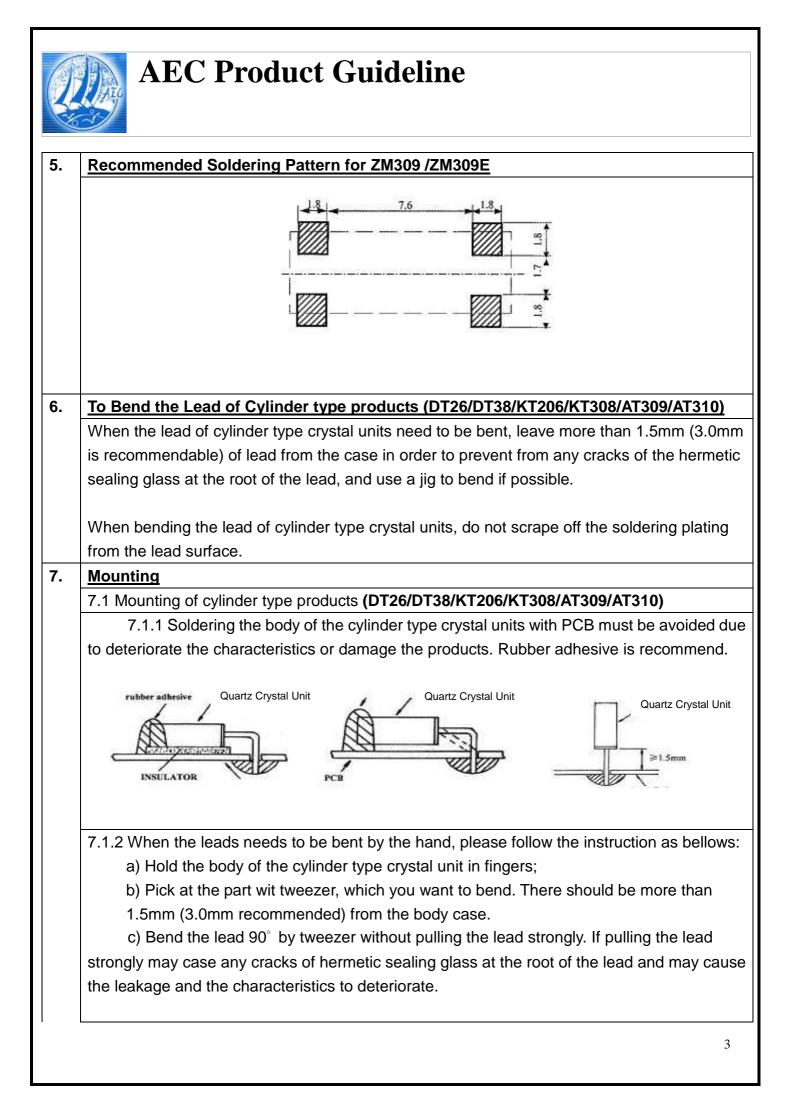
NO	PROCESS INSTRUCTIONS		
1	When dropped by mistake		
	The Crystal units are designed and manufactured to resist physical shocks. However, when		
	the crystal units are subjected to excessive impact such as being dropped onto the floor or		
	giving shocks during processing, need to make user its satisfactory performance before		
	using it.		
2.	Soldering		
	2.1 Lead type products		
	Leads wires should be soldered within 3 seconds with the soldering iron heated to a		
	temperature no higher than 350 $^\circ C$ / 3"		
	In soldering –dip processing, the leads should be soldered within 10 seconds with a		
	temperature no higher than 260 $^\circ C$ /5". Mounting in upright is recommendable to prevent the		
	heat conduction directly to the body of the crystal unit.		
	2.2 SMD Type products		
	2.2.1 The Reflow Soldering Profile is recommended for ZM206 /ZM206K /ZM309 / ZMR206A		
	/ZMR206B/ ZMR206KS /ZMR206KT/ZMR310		
	• <u>Lead Free</u>		
	REFLOW SOLDERING PROFILE		
	PEAK 10s MAX		
	240 °C - 2 TO 5°C/s		
	200°C +		
	230 s MAX →		
	1 TO 4℃/s		
	25°C + 60 s MIN		
	TIME (SECONDS)		



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2.2.2 The Reflow Soldering is recommended for ZM206E/ZM206KE/ZM309E / ZMR206AE /ZMR206BE/ ZMR206KSE /ZMR206KTE/ZMR310E (High temperature melting solder lead inside)







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	7.2 Mounting of SMD Type products		
	When using an automatic loading, please test and confirm to cause no damage to the		
	crystal units before mounting. Bending the circuit board in the process of cleaving broads		
	after mounting and soldering crystal units may cause peeling off the soldering or package		
	cracks by mechanical stress.		
	Please be sure the layout of crystal products position is on the less stressed and the cleaving		
	process I is under less stressed for the crystal units.		
8	Cleaning		
	8.1 Crys	tal units may be affected and destroyed at worst by supersonic welding. Please be	
	sure to check if your cleaning and welding process affects any damage to crystal units before		
	using.		
	8.2 Some kinds of cleaning fluid may cause any damage to crystal units. Please be sure to		
	check suitability of the cleaning fluid in advantage.		
9	Storage		
	(1)	Storing the crystal products under higher or lower temperature or high humidity for	
		a long period may affect frequency stability or solder ability. Please store the crystal	
		products at the normal temperature and humidity without exposing to direct sunlight	
		and dew condensation and avoid the storage of crystal unit for more than 1 year	
		and mount them as soon as possible after unpacking. Normal temperature and	
		humidity:	
		Temp Range, +15° \mathbb{C} to + 35° \mathbb{C} ,	
		Humidity 25 % RH to 85 % RH	
	(2)	Please carefully handle the inner and outer boxes and reel. External pressure may	
		cause deformation of reel and tape.	
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