

Tel: 0044 (0)118 979 1238 Fax: 0044 (0)118 979 1283 email: info@actcrystals.com

ACT ZTTCR SMD Resonators

The **ACT ZTTCR** family of Ceramic SMD Resonators offers a cost effective solution for applications requiring good stability over a wide temperature range, together with accuracy to ±0.5.

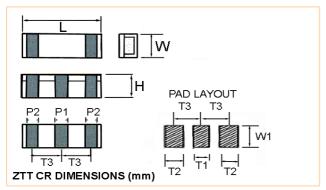
Compatible with Eu Directive 2002/95/EC - RoHS Contains Pb in ceramic parts exepted from article 4(1) of the directive

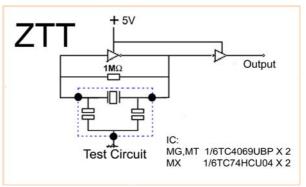


Specification

Part Type/ Number	Frequency Range MHz	Test IC	Vdd	Frequency accuracy @25°C (%)	Stability over temp. range (-20 +80°C)(%)	Aging over 10 years (%)	Internal Cap. (pF) C1 & C2
ZTTCR MG	4.0 ~ 8.0	TC4069UBP x 2	+5V	±0.5	±0.3	±0.3	30pF

Vibration Mode: Thickness shear Pad Material: Top and bottom pads Sn over Sn Ag





The piezo electric ceramic contains lead greater than the RoHS limit as an inapplicability substance. Excluded from RoHS legislation.

	L	W	н	P1	P2	T1	T2	T3	W1
	±0.2	±0.2	MAX	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2
ZTT CR MG	4.5	2.0	1.2	0.8	0.8	0.8	0.8	1.5	3.0

Important note when using ceramic resonators with micro controllers

Some resonator parameters vary considerably with frequency and physical construction/size . These differences are too great to be able to be practically shown in a data sheet.

However, these parameters can be critical when the resonators are used with micro controllers. Even if two different resonators appear to have the same specification the typical values of these critical parameters can be considerably different. When enquiring about resonators for use with micro controllers it is important to supply the make and part number of the IC to be used and/or the list of recommended resonators, if this is given.

Please note that all parameters can not necessarily be specified in the same device

Customer to specify: Frequency

In line with our ongoing policy of product evolvement and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

Issue : 9 C1r

Pare quotations or further information please contact us at:

Date : 30/06/06

For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

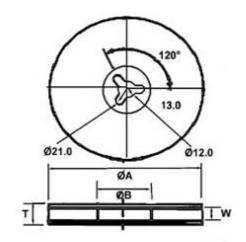
http://www.actcrystals.com

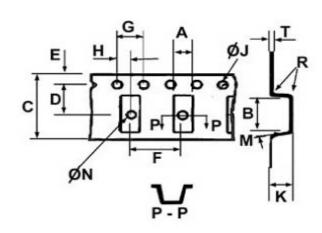


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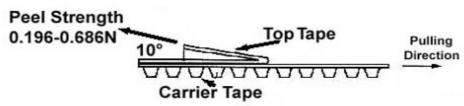
TAPE & REEL / SOLDERING INFORMATION



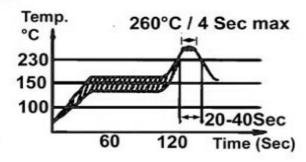


ØA	ØB	W	Т	Pieces / reel	Carrier Tape (mm)
179±2	60typ	8.4min	14 max	3000	8

	Α	В	С	D	Е	F	G	Н	JØ	NØ	М	R	K	Т
	±0.2	±0.2	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	max	max	±0.2	±0.1
ZTACR	2.2	4.7	12	5	1.75	4	4	2	1.6	1.6	3°	0.3	1.3	0.3



Maximum Reflow



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