

台灣聯能壓電科技股份有限公司  
TAIWAN PIEZO-CERAM TECHNOLOGY CORP.

7F-4 NO.58 TA JEN ROAD  
TAO YUAN CITY 330  
TAIWAN

330 桃園市大仁路 58 號 7 樓之 4  
No.12612573

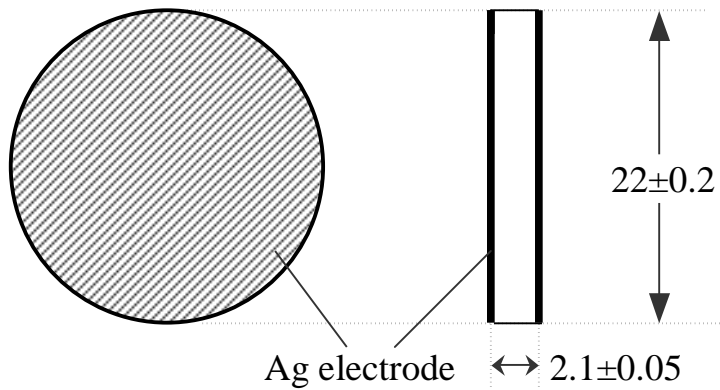
TEL:886-3-3756783  
FAX:886-3-3756782  
E-mail:TPCCO@pchome.com.tw

APPROVAL SHEET OF PIEZO-CERAMIC

TPC-D2221-1M

1. PART NUMBER: TPC-D2221-1M

2. DIMENSIONS: 22 <sup>±</sup>0.2



3. ELECTRICAL SPECIFICATION:

Resonant Frequency, $f_r$ (Hz)	1M±50k
Dielectric Loss, $\tan\delta$ (%)	<0.4
Coupling Factor, $k_p$	>0.6
Free Capacitance, C(pF)	2000±20%
Piezoelectric Constant, $d_{33}$ (pC/N)	>320
Zmt	<1.5
Application	Ultrasonic Beauty Discs