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**Detail specification for
resistance welded seal
quartz crystal units for
oscillator applications —
DN, DZ, DQ and DP
enclosures, 0.8 to 20 MHz
and 3.0 to 30 MHz
frequency ranges —
Fundamental
thickness-shear mode,
AT-cut, for operation
over narrow temperature
ranges (temperature
controlled) —
Full assessment level**

UDC 621.373.5:621.382

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

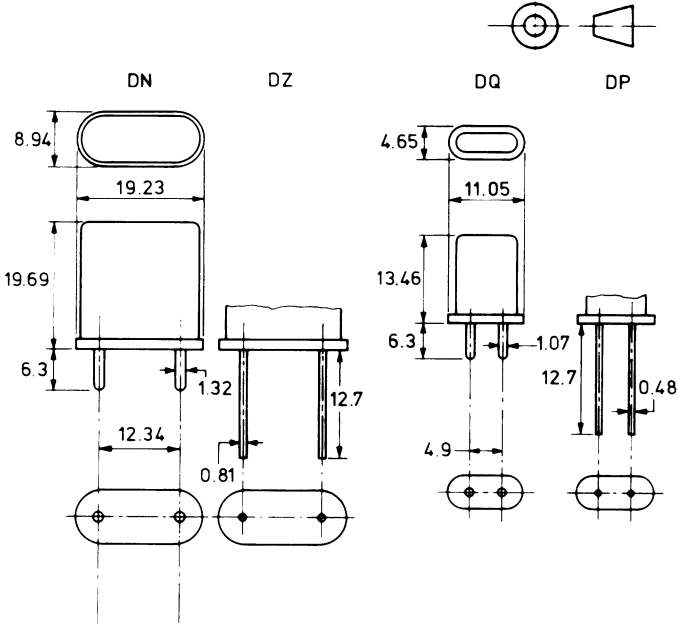
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ELECTRONIC COMPONENTS OF ASSESSED QUALITY DETAIL SPECIFICATION IN ACCORDANCE WITH BS 9610:1977		MANUFACTURER'S TYPE NUMBER 12 N017 series See PD 9002	
Outline and dimensions. Third angle projection		For ordering information see clause 5	
 Metal case, conductive finish Dimensions in millimetres and are maximum except where otherwise indicated For detail dimensions see BS 5069-1 For marking information see clause 3		RESISTANCE WELDED QUARTZ CRYSTAL UNITS FOR OSCILLATOR APPLICATIONS	
		ENCLOSURE TYPE	AVAILABLE FREQUENCY RANGE
		DN DZ DQ DP	0.8 MHz to 20 MHz 0.8 MHz to 20 MHz 3.0 MHz to 30 MHz 3.0 MHz to 30 MHz
		FUNDAMENTAL THICKNESS-SHEAR MODE, AT-CUT FOR OPERATION OVER NARROW TEMPERATURE RANGES (TEMPERATURE CONTROLLED)	
		FULL ASSESSMENT	

1 Ratings

Operating temperature range	} See Table 3	
Circuit conditions		
Drive level		
Environmental category	:	65/105/56
Bump severity	:	4 000 ± 10 bumps total at 390 m/s ² acceleration in both directions of each of three mutually perpendicular axes
Vibration severity	:	10 Hz to 60 Hz; 0.75 mm displacement 60 Hz to 500 Hz; 98.1 m/s ² acceleration
		} 30 min in each of three mutually perpendicular planes at 1 octave/minute
Shock severity	:	981 m/s ² acceleration for 6 ms duration; waveform trapezoidal; three shocks in each direction along three mutually perpendicular axes (i.e. a total of 18 shocks)

Refer to Qualified Products List PD 9002 for details of manufacturers approved to this specification.