ROHS-Compliant Product

V-810 Series

1. Specification

Standard output frequencies T = 25 ± 3°C, V_C = 1.65 V:	**A** (f1) 622.08 MHz & (f2) 669.32658 MHz **B** (f1) 622.08 MHz & (f2) 624.694 MHz **C** (f1) 155.52MHz & (f2) 166.628571MHz
Overall stability all causes for over 15 years operational lifetime, including temperature stability, aging, delivery tolerance, supply voltage and load changes (10%):	< ± 50 ppm
Frequency control range:	≥ ± 100 ppm
Control voltage:	+0.3 V to +3 V
Input Impedance:	> 50 kOhm
Transfer function / Linearity:	Positive / 10%
Supply voltage U_B:	+3.3 V ± 5 %
Current consumption :	< 140 mA
Output signal : Duty cycle @ 50% level : Rise / fall time (20% to 80%) :	LVPECL complementary output 45% / 55% < 0.5 ns
Phase noise @ 10kHz offset :	< -120 dBc/Hz
Phase jitter in the range of 10kHz – 1MHz:	≤ 0.5 psec. RMS
Spurious	< -60 dBc
Frequency Select Voltage Type, f1/f2	LVTTL
Frequency Select Logic, f1/f2	LOW (0) = f1 HIGH (1) = f2
Enable/Disable Voltage Type	LVTTL
Enable/Disable Logic	LOW (0) = Enable HIGH (1) = Disable
Temperature ranges Operating: Storage:	 -20°C to +70°C -55°C to +105°C

ED	Description	Date	Name
4			
3			
2			
1	New series	06.02.04	H.-J. Herzog

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Tel. +49 (0) 7263 / 648-0
Fax. +49 (0) 7263 / 6196

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2. Environmental conditions

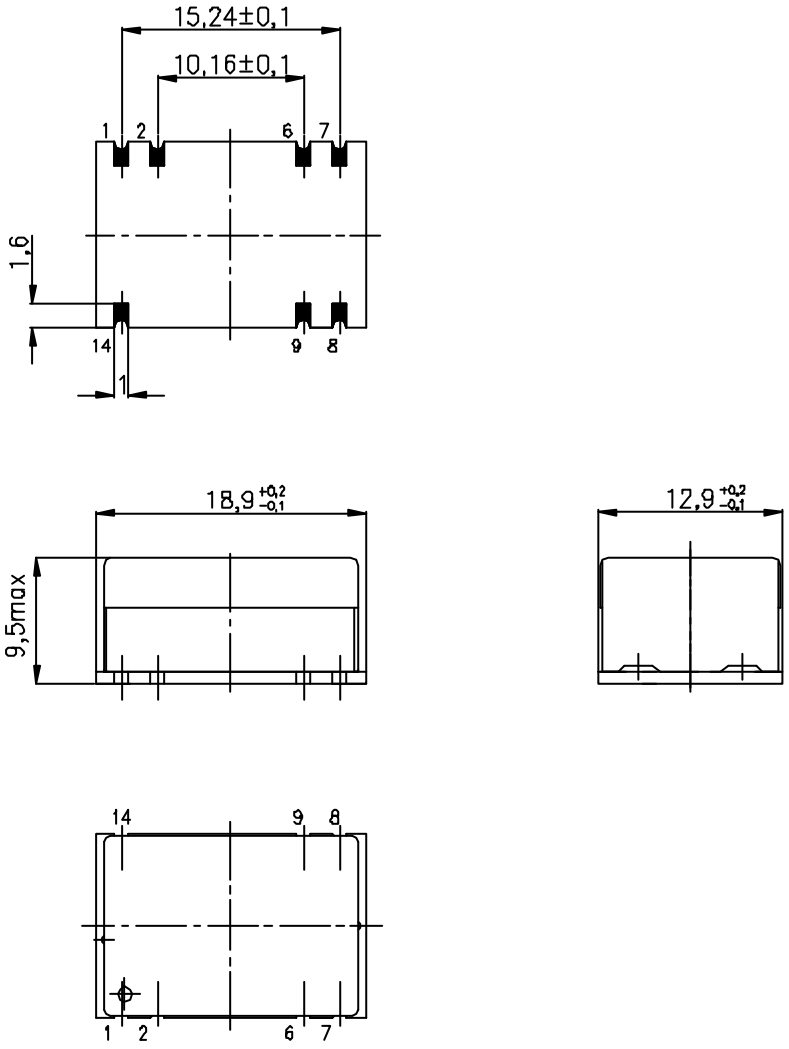
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

KVG, date code (week/year), Specification, Center frequency

4. Case

Case style: BF-169-9.5A



Pin configuration

1. Control voltage
2. Frequency select
6. Enable / Disable
7. GND
8. RF-Output
9. Complementary RF-Output
14. Supply voltage

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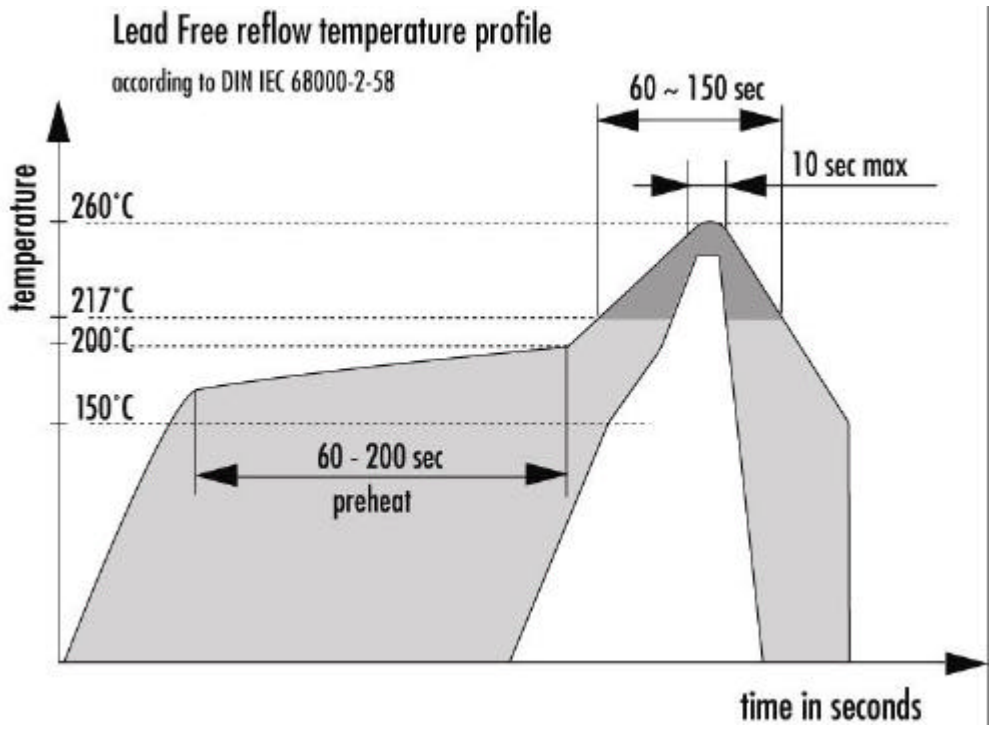
Subject to technical modification

V-810 Series

5. Reflow Soldering Profile



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