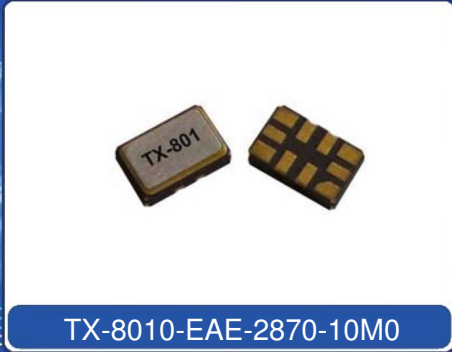


Helping Customers Innovate, Improve & Grow



TX-8010-EAE-2870-10M0

Nominal frequency (f0)

10 MHz

Performance Specifications

Frequency stabilities					
Parameter	Min	Typical	Max	Units	Condition
Over all (df/f0)	-4.6		+4.6	ppm	-40...85°C
vs. operating temp. range (df/f@25°C)	-0.28		+0.28	ppm	-40...85°C
Additional information	Able to support Wander Generation per GR1244, section 5.3 with a loop filter bandwidth of 100mHz				
initial tolerance (df/f0)	-1		+1	ppm	@25 °C
Holdover 24 h	-0.32		+0.32	ppm	over 24 hours
Additional information	overall incl.: temp., supply, load var. + aging 20 years				

RF output					
Parameter	Min	Typical	Max	Units	Condition
Signal	LVCMOS				
Load	13.5	15	16.5	pF	
Fan out	3				
Rise Time			6.5	ns	@10 to 90 %Vout
Fall Time			6.5	ns	@90 to 10 %Vout
Duty cycle	40		60	%	@1.65 V
V Low			0.3	V	
V High	3			V	
Enable	Enable Function Pin8			Output Pin6	
	high			data	
	open			data	
	low			high tristate	

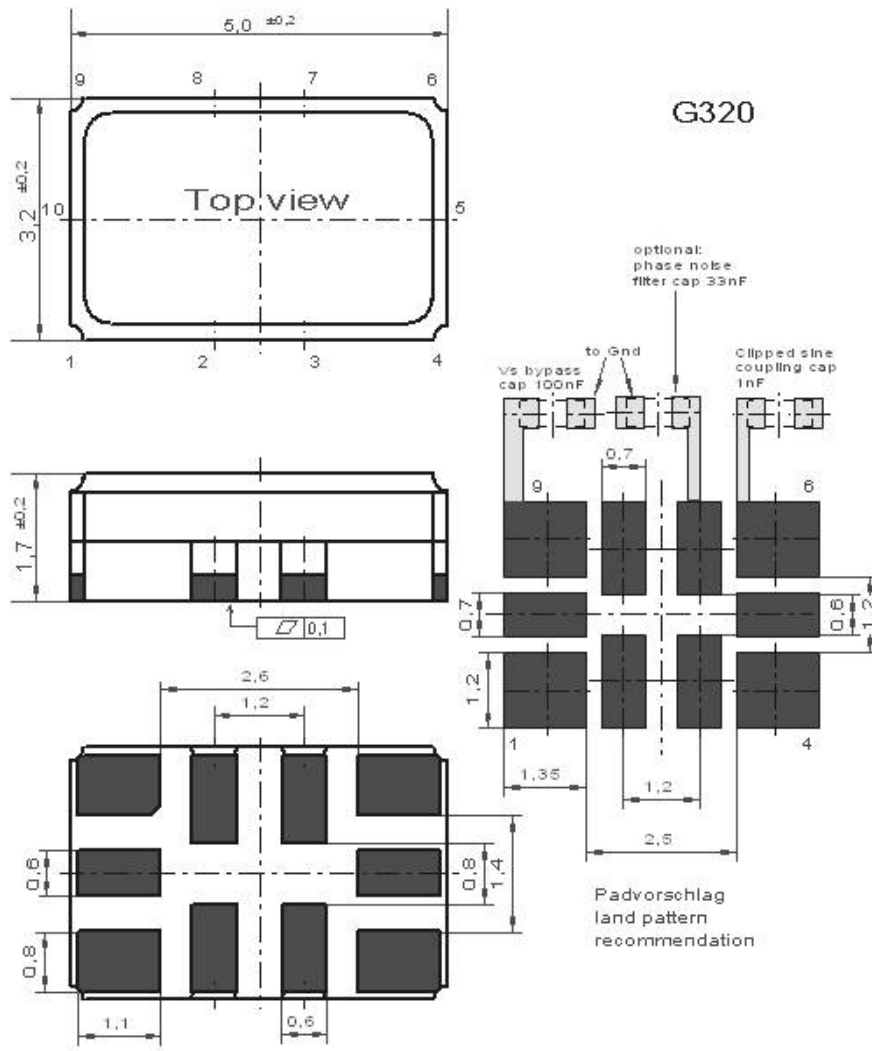
Supply voltage					
Parameter	Min	Typical	Max	Units	Condition
Supply voltage (Vs)	3.14	3.3	3.47	V	
Current consumption steady state			4	mA	@ Vsnom % 25 °C

Additional Parameters					
Parameter	Min	Typical	Max	Units	Condition
Processing & Packing	handling&processing note				

Additional Environmental Conditions	
Parameter	Description
Rapid temperature changes	MIL-883-1010 Cond B 500 cycles -55/125°C
Vibration	MIL-STD-883 Meth 2007 Cond A 20G 20-2000Hz 4x in each 3axis 4 min
Shock	JESD22-B104-B 200G 1,5ms 6 shocks in each direction
Solderability	J_STD_002C Cond A, Through hole device/ Cond. B, SMD 255°C (diving time 5±0,5sec.) Dip+Look with 8h damp pre-treatment: solder wetting >95%
Solvent resistance	MIL-STD-883 Meth 2015 Solv. 1,3,4
ESD	HBM JESD22-A114-E Class 1 10* 1000V
Moisture Sensit.	Level 1 JESD22-A113-B
RoHS compliance	100% RoHS 6 compliant

Absolute Maximum Ratings					
Parameter	Min	Typical	Max	Units	Condition
Supply voltage (Vs)	-0.6		+6	V	
Operable temperature range	-40		+85	°C	
Storage temperature range	-55		+125	°C	

Enclosure



all units in mm

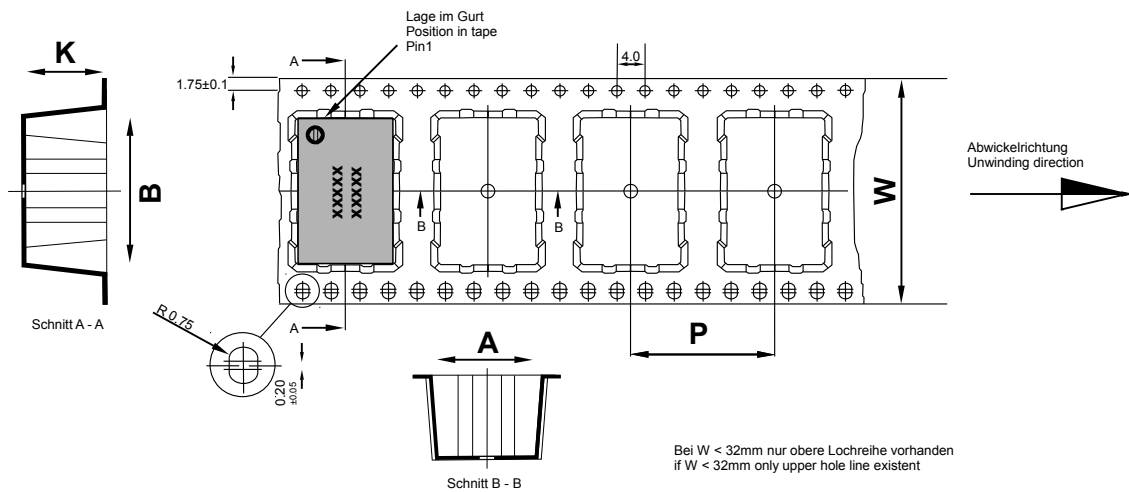
Enclosure Info	
Parameter	Description
Type	G320
Height	1.7 mm
Pin Connections	1: I.C. 2: I.C. (Do not connect!) 3: I.C. (Do not connect!) 4: GND (Case) 5: GND (Case) 6: RF-Output 7: PN-Filter 8: Enable/Disable 9: Vs (supply voltage) 10: GND (Case)

Enclosure Info	
Parameter	Description
Marking	TXEAE287 10M000 *VAYYWW - - * pin-1 marking
Package cover material	Ceramic
Package base material	Ceramic

Reflow profile

IPC/JEDEC J-STD-020 (latest revision)
Additional Information:

Standard shipping method



Maßangaben in mm: A, B und K Maße von Bauelement abhängig Fertigungstoleranzen entsprechen der DIN IEC 286-3	Dimension in mm: A, B und K are dependent upon component dimensions production tolerance complying DIN IEC 286-3
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All dimensions in millimeters unless otherwise stated

Reel Info						
Tape width W [mm]	Quantity per meter	Quantity per reel	P [mm]	A [mm]	B [mm]	K [mm]
12	125	750	8	3.6	5.2	2.6

Notes: Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C).
Subject to technical modification.

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