



5x7,5mm SMD LVDS-OSCILLATOR +2,5 V CMC1

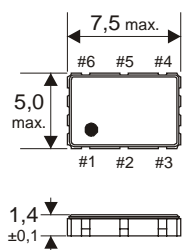


FREQUENZSTABILITÄT FREQUENCY STABILITY		BETRIEBSBEDINGUNGEN OPERATING CONDITIONS	
Modell <i>Model</i>			
CM1C1A	±100ppm/-10~+70°C	Betriebstemperatur <i>operating temp.</i>	-10~+70°C, -40~+85°C
CM2C1A	±50ppm/-10~+70°C	Lagertemperatur <i>storage temperature</i>	-55~+125°C
CM3C1A	±25ppm/-10~+70°C	Betriebsspannung V_{CC}	+2,5 V ±5%
CM1C1R	±100ppm/-40~+85°C	supply voltage V_{CC}	
CM2C1R	±50ppm/-40~+85°C		
CM3C1R	±25ppm/-40~+85°C		

Elektrische Daten <i>electrical characteristics</i>				
$T_a = 25^\circ\text{C}$, $V_{CC} = 2,5\text{ V}$, $R_L = 50\ \Omega$				
Parameter <i>parameter</i>	Bedingungen <i>conditions</i>	Frequenzbereich <i>frequency range</i>	Spezifikationen <i>specifications</i>	
max. Stromaufnahme <i>max. input current</i>	I_{CC}	75,000 ~ 315,000 MHz Standardfrequenzen standard frequencies	63 mA max	
Frequenzstabilität <i>frequency stability</i>	über alles *) <i>all conditions *)</i>		±25 ppm ~ ±100 ppm	
Differential-Ausgangsspannung <i>differential output voltage</i>	V_{OD}		0,33 V typ.	
Differential-Ausgangsspannungshub <i>differential output voltage swing</i>	V_{OPP}		0,25 V_{p-p} min.	
Offset-Spannung <i>offset voltage</i>	V_{OS}		1,125 ~ 1,375 V (1,25 V typ.)	
Tastverhältnis <i>symmetry</i>	crossing point		45/55 %	
Anstiegszeit max. <i>rise time max.</i>	T_R 20% - 80% V_{p-p}		0.7 ns	
Abfallzeit max. <i>fall time max.</i>	T_F 80% - 20% V_{p-p}		0.7 ns	
Ruhestrom <i>standby current max.</i>	$V_{IL} \leq 30\% V_{CC}$		77,76 100,00 106,25 120,00 125,00 128,00 129,00 130,00 133,33 150,00 155,52 156,25 187,50 200,00 212,50	30 μA
Ausgangslast <i>output Load</i>	out 1 - out 2		220,00 250,00 256,00 MHz	100 Ω
Startzeit max. <i>start-up time max.</i>	0,0 - 3,3 V		10 ms	
Phasen-Jitter max. <i>phase jitter max.</i>	RMS 12 kHz ~ 20 MHz		1 ps	
Perioden-Jitter max. <i>period jitter max.</i>	RMS n = 5.000 cycles		5 ps	

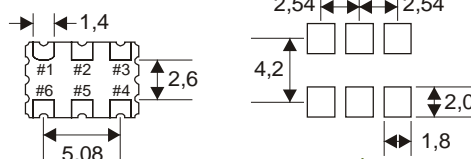
*) Anmerkung: inkl. 25°C Toleranz, Temperaturgang, Spannungs- und Laständerung, Alterung, Schock und Vibration
note: incl. 25°C tolerance, operating temperature range, input voltage, load change, aging, shock and vibration.

Abmessungen in mm
dimensions in mm



lead-free/RoHS-conformal

empfohlenes Layout
recommended solder pad layout



Anschlußbelegung
pin connections

#1	E/D
#2	NC
#3	GND
#4	OUTPUT1
#5	OUTPUT2
#6	V_{CC}

enable/disable function

control(pin #1)	output(pin #4-#5)
open	active
"1" ($V_{IH} \geq 70\% V_{CC}$)	active
"0" ($V_{IL} \leq 30\% V_{CC}$)	high Z