

Selected Electrical Specifications

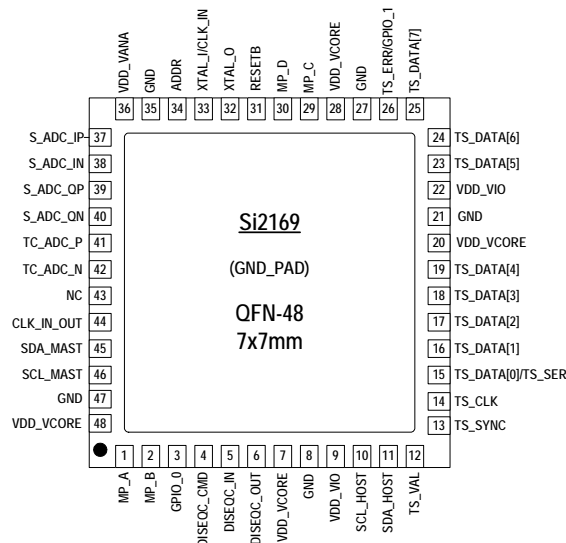
(T_A = -10 to 75 °C).

Parameter	Test Condition	Min	Typ	Max	Unit
General					
Input clock reference		4	—	30	MHz
Supported XTAL frequency		16	—	30	MHz
Total power consumption	DVB-T2 ¹	—	420	—	mW
	DVB-T ² /DVB-C ³	—	190/180	—	mW
	DVB-S ⁴ /DVB-S2 ⁵	—	240/480	—	mW
Thermal resistance (θ _{JA})	2 layer PCB	—	35	—	°C/W
	4 layer PCB	—	23	—	°C/W
Power Supplies					
V _{DD-VCORE}		1.14	1.20	1.30	V
V _{DD-VANA}		3.00	3.30	3.60	V
V _{DD-VIO}		3.00	3.30	3.60	V

Notes:

1. Test conditions: 8 MHz, 256 QAM, 32K FFT, CR=3/5, GI=1/128, PP7, C/N at picture failure.
2. Test conditions: 8 MHz, IF mode, 8K FFT, 64 QAM, parallel TS output.
3. Test conditions: 6.9 Mbaud, IF mode, 256 QAM, parallel TS output.
4. Test conditions: 30 Mbaud, CR=7/8, parallel TS (at QEF: BER = 2 · 10⁻⁴).
5. Test conditions: 32 Mbaud, 3/5 Code Rate, 8PSK, pilots On, parallel TS, C/N at picture failure (PER = 10⁻⁴).

Pin Assignments



Selection Guide

Part #	Description
Si2169-B40-GM/R	Multimedia Digital TV Demodulator for DVB-T2/T/C/S/S2, 7x7 mm QFN-48

Mouser Electronics

Authorized Distributor

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