

8 COMMUNICATION DEVICES

TELEPHONES

Type No.	Function	Typical electrical characteristics		Package outline	Remarks
		V _{CC} (V)	I _{CC} (mA)		
M54193AP/BP	Telephone Tone Ringer	50	2	8P4	
M54198SP	× Speech Network with On-Fook Dial Function	2.2 to 15	10	42P4B	
M54151P	Telephone Speaker Amp	1.5 to 5.5	3.3	14P4	
M64021FP	Voice Scrambler	2.8 to 5.5	3.5	16P2N	
M64022FP	Voice Scrambler with Compander	2.7 to 5.5	4	48P6S	
M64023FP	Voice Scrambler with Compander and MODEM	2.8 to 5.5	8	56P6S	
M64026FP	Voice Scrambler	2.8 to 5.5	3.5	16P2N	
M54958FP	Dual PLL Frequency Synthesizer	3 to 5.5	30	20P2N	fmax= 500MHz
M54958AFP	Dual PLL Frequency Synthesizer	2.8 to 5.5	18	20P2N	fmax= 400MHz
M56763FP	Dual PLL Frequency Synthesizer	2.8 to 5.5	12	20P2N	fmax= 260MHz
M64071GP	Dual PLL Frequency Synthesizer	2.7 to 3.3	7	20P2E	fmax= 260MHz
M64072FP/GP	Dual PLL Frequency Synthesizer	2.7 to 3.3	9	20P2N/20P2E	fmax= 520MHz
M64080GP	Dual PLL Frequency Synthesizer	1.8 to 3.3	8	20P2E	fmax= 410MHz
M64082AGP	Dual PLL Frequency Synthesizer with Current Control Charge Pump	1.8 to 5.5	10	16P2E	fmax= 520MHz
M64083GP	Dual PLL Frequency Synthesizer with VCO Tr and MIX for 1st IF	1.8 to 5.5	20 (2V)	24P2E	fmax= 520MHz
M64084AGP	★ Dual PLL Frequency Synthesizer with VCO Tr, MIX and Doubler	2.7 to 5.5	30	24P2E	fmax= 1.0G/500MHz

× : Plan for production discontinue

MOBILE COMMUNICATION

Type No.	Function	Typical electrical characteristics		Package outline	Remarks
		V _{CC} (V)	I _{CC} (mA)		
M51177L	× 455kHz FM IF Amp. Detector	3	2.2	8P5	
M51304L	Mic Amp. Detector. ALC	13.2	11	8P5	
M54459L	1/20, 1/100 High Speed Divider	5	6.5	8P5	
M54460L	1/10, 1/100 High Speed Divider	5	6	8P5	
M54475P	1/128, 1/129 2Modulus High Speed Divider	5	40	8P4	
M54956P	× Serial Input PLL Frequency Synthesizer	5	40	16P4	fmax= 1GHz
M54959P/FP	Serial Input PLL Frequency Synthesizer	5	20	16P4/24P2W	fmax= 500MHz
M56760FP	PLL Frequency Synthesizer	3 to 5.5	14	16P2N	fmax= 540MHz
M64073FP/GP	Dual PLL Frequency Synthesizer	3.0 to 5.5	10.5	20P2N/20P2E	fmax= 520MHz
M64074GP	Dual PLL Frequency Synthesizer	2.7 to 5.5	17	20P2E	fmax= 1GHz
M64076AGP	★ Dual PLL Frequency Synthesizer	3.0 to 5.5	14.6	20P2E	fmax= 650MHz
M64810AGP	★★ Dual PLL Frequency Synthesizer	2.7 to 3.6	9	20P2E	fmax= 2G/500MHz
M64811AGP	★★ Dual PLL Frequency Synthesizer	2.7 to 3.6	7	20P2E	fmax= 1.1G/500MHz
M64089GP	Dual PLL Frequency Synthesizer	2.7 to 5.5	11	20P2E	fmax= 1.1G/330MHz
M64170FP	★ PHS Baseband Processor	2.7 to 3.3	25	100P6D-A	
M64171FP	★★ PHS Baseband Processor	2.7 to 3.3	25	100P6D-A	
M64820FP	PHS IF · IC (PLL, QPSK, MIX)	2.7 to 3.6	50/30	48P6D	fmax= 2GHz

× : Plan for production discontinue