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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CM6320

EMI Filter with ESD Protection for SIM Card Applications

Product Description

The CM6320 is a 24-bump EMI filter with ESD protection device for data line application in a 0.4 mm pitch, 5 x 5 CSP form factor. It is fully compliant with IEC 61000-4-2. The CM6320 is RoHS II compliant.

Features

- 24-Bump, 1.96 mm X 1.96 mm Footprint Chip Scale Package
- These Devices are Pb-Free and are RoHS Compliant



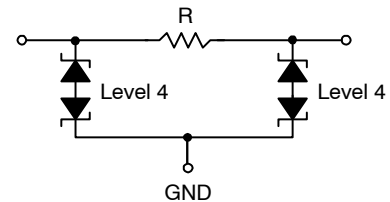
ON Semiconductor®

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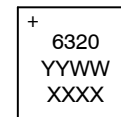
WLCSP24
CASE 567CK

ELECTRICAL SCHEMATIC



1 of 10 Filter Channels

MARKING DIAGRAM



6320 = CM6320
YYWW = Date Code
XXXX = Last four digits of lot #

ORDERING INFORMATION

Device	Package	Shipping†
CM6320	CSP-24 (Pb-Free)	5000/Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

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PACKAGE / PINOUT DIAGRAMS

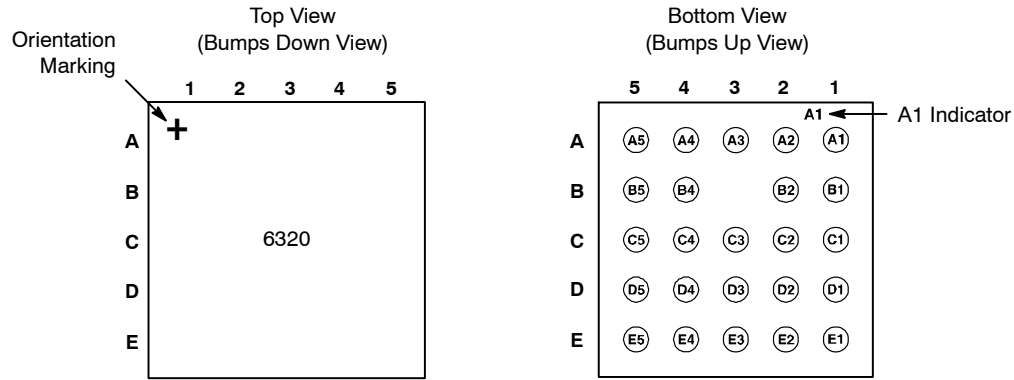


Table 1. PIN DESCRIPTIONS

A5 = Line 1	A4 = Line 2	A3 = GND	A2 = Line 1	A1 = Line 2
B5 = Line 3	B4 = Line 4		B2 = Line 3	B1 = Line 4
C5 = Line 5	C4 = Line 6	C3 = GND	C2 = Line 5	C1 = Line 6
D5 = Line 7	D4 = Line 8	D3 = GND	D2 = Line 7	D1 = Line 8
E5 = Line 9	E4 = Line 10	E3 = GND	E2 = Line 9	E1 = Line 10

ELECTRICAL SPECIFICATIONS AND CONDITIONS

Table 2. PARAMETERS AND OPERATING CONDITIONS

Parameter	Rating	Units
Storage Temperature Range	-55 to +150	°C
Operating Temperature Range	-40 to +85	°C
Power Dissipation at 70°C per Channel	60	mW

Table 3. ELECTRICAL OPERATING CHARACTERISTICS (Note 1)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
R	Resistance		56	70	84	Ω
C	Capacitance per Line	At 1 MHz, $V_{IN} = 0$ V; (Note 2)			30	pF
V_{BR}	Breakdown Voltage	$I_R = \pm 1$ mA	±6	±7.8	±10	V
I_{LEAK}	Leakage Current per Channel	$V_{IN} = 3.0$ V		10	100	nA
V_{ESD}	ESD Protection Peak Discharge Voltage a) Contact Discharge per IEC 61000-4-2 standard b) Air Discharge per IEC 61000-4-2 standard	(Notes 2 and 3)	±15			kV

- All parameters specified at $T_A = 25^\circ\text{C}$ unless otherwise noted.
- These parameters guaranteed by design and characterization.
- Standard IEC 61000-4-2 with $C_{Discharge} = 150$ pF, $R_{Discharge} = 330$ Ω.

CM6320

RF CHARACTERISTICS

$T_A = 25^\circ\text{C}$, DC Bias = 0 V, 50 Ω Environment

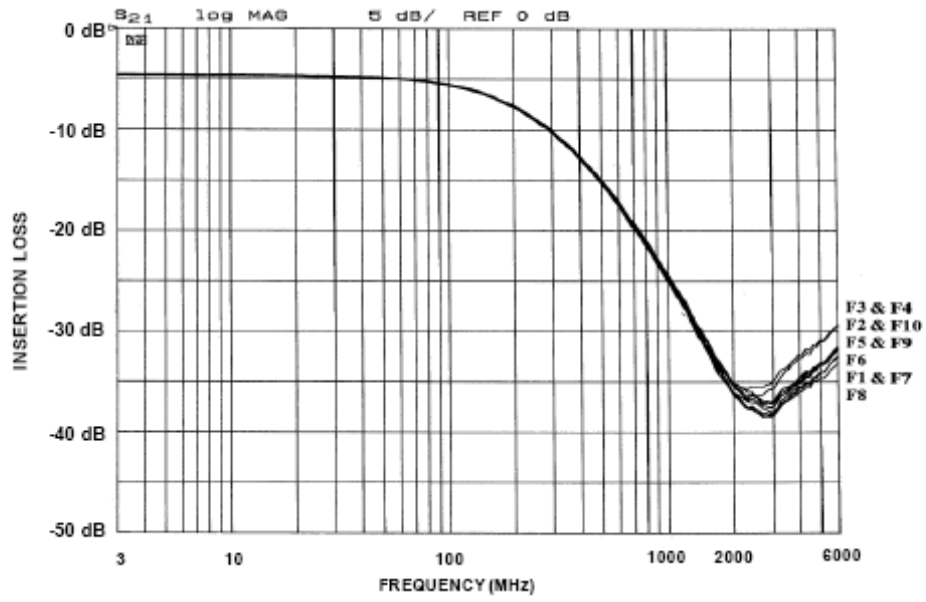


Figure 1. Insertion Loss (0 V Bias)

