

tuning of oscillators, multipliers or filter elements.

DESCRIPTION

Directive 2002/95/EC.

APPLICATIONS

MPC8010-MPC8300

e4

PASSIVE DEVICES – MMSM[®] Capacitors

RoHS COMPLIANT



www.MICROSEMI.com

KEY FEATURES

- Low parasitics
 L_P = 0.02nH Typical
 C_P = 0.04pF Typical
- Surface Mount design
- Broadband Performance through X-Band
- Available on Tape & Reel for automated pick & place assembly
- Small, SOD 323 Footprint
- RoHS Compliant¹

1- These devices are supplied with gold terminations.

APPLICATIONS/BENEFITS

- DC Blocks
- Capacitive coupling
- RF Bypass
- Fixed Filter Elements



ABSOLUTE MAXIMUM RATINGS AT 25° C (UNLESS OTHERWISE SPECIFIED)

This series of surface mount capacitors utilize new and unique monolithic

MMSM[®] technology. The technology is a package/device integration

accomplished at the wafer fabrication level. Since interconnections utilize

precision photolithographic techniques rather than wire bonds, parasitic

package inductance is tightly controlled. The package parasitics provide smooth non-resonant functionality through X Band. Microsemi utilizes high

quality dielectric materials resulting in exceptional Quality Factor (Q) and

lowest loss. Insertion loss is typically less than 0.2 db over the working

frequency range. This series of devices meets RoHS requirements per EU

The MPC8000 MMSM[®] capacitors are used in RF circuits for dc blocks, capacitive coupling and RF bypass. They are used for fixed capacitive

Rating	Symbol	Value	Unit
Maximum Leakage Current @80% of minimum Rated V _B	I _R	10	nA
Operating Temperature	T _{OP}	-55 to +125	°C
Storage Temperature	T _{STG}	-55 to +125	°C

IMPORTANT: For the most current data, consult our website: <u>www.MICROSEMI.com</u> Specifications are subject to change. Consult factory for latest information .

These devices are ESD sensitive and must be handled using ESD precautions.



MPC8010-MPC8300



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RoHS COMPLIANT (e4)

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DEVICE ELECTRICAL PARAMETERS @ 25 °C (unless otherwise specified)					
Model Number	V _B (∨) (Min)	$\mathbf{C}_{\mathbf{T}}(pF)^1$	Tolerance (+/-%)		
MPC8010	100	1.0	15		
MPC8020	100	2.0	10		
MPC8050	100	5.0	10		
MPC8100	100	10.0	10		
MPC8200	100	20.0	10		
MPC8300	100	30.0	10		

Notes

1- Capacitance is measured at f = 1 MHz.



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