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101568C July 18, 2002



Application Note Product Affected:

Power Amplifier Modules

TAPE and REEL INFORMATION

Production quantities of Power Amplifier Modules (PAM) are shipped in standard tape and reel formats. The following illustrations show the various formats with tape and reel dimensions for current module sizes.



Electrostatic Discharge Sensitivity

The electrical and triboelectrical properties of $3M^{TM}$ Conductive 3000 Polycarbonate Carrier have been engineered to help provide protection of static-sensitive components through an effective balance between the electrostatic shielding and electrostatic decay properties of the carrier. The 3M 3000 Polycarbonate Carrier is electrically conductive, exhibiting a nominal surface resistivity in the pocket of $\geq 10^4 \Omega$ /square and $\leq 10^8 \Omega$ /square. The surface resistance of 3000 minimizes dV/dt, affording ESD protection to devices in Classes I through III. 3M 3000 Polycarbonate Carrier also exhibits triboelectrical properties, which may be appropriate for packaging electrostatically-sensitive components.

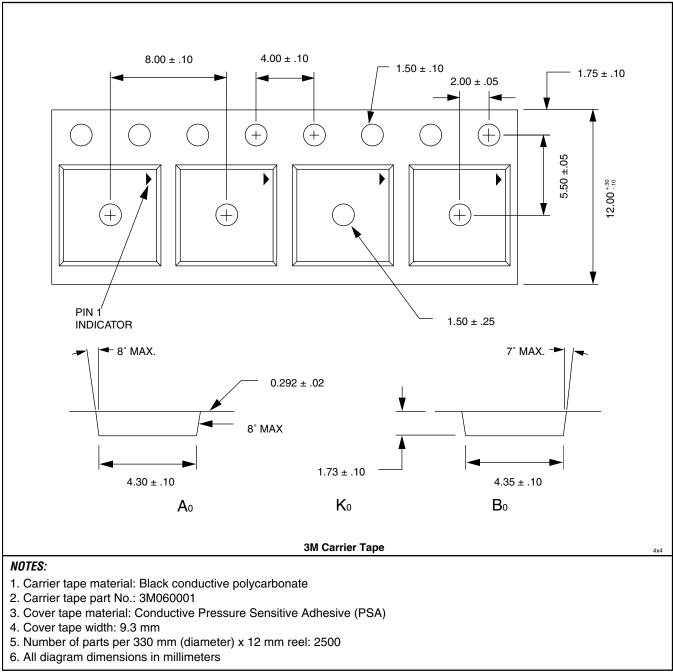
ESD Model	ESD Class	(Voltage Range)
НВМ	I	> 0 V–1,999 V
	II	2,000 V–3,999 V
	111	4000 V–15,999 V

Table 1. Classes of ESDS Parts

Electrical Properties	Method	Units	Typical Value
Surface Resistance	EOS/ESD S11.11	ohms	In 1.0E+11 Out 1.0E+11
Static Decay	FTMS 101C/METHOD 4046	Sec.	+ 0.01 - 0.01
Energy Test	EOS/ESD S11.31	nano-Joules	10



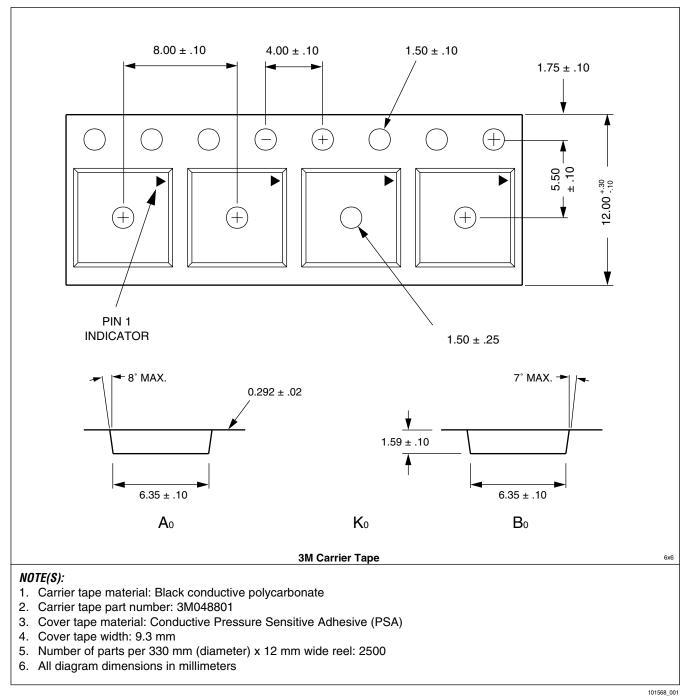




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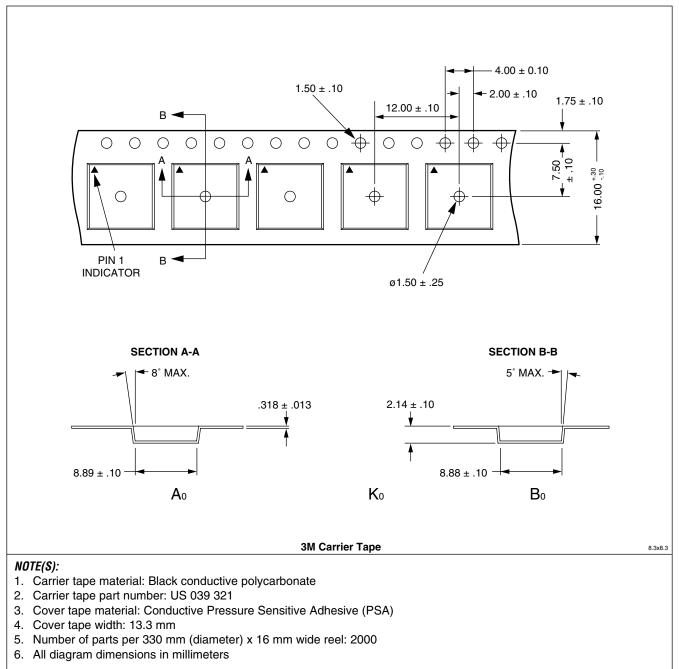






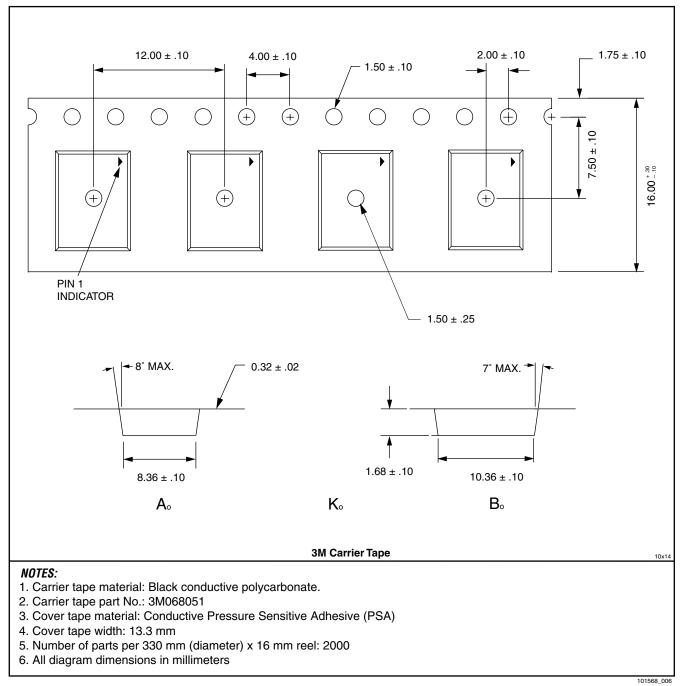
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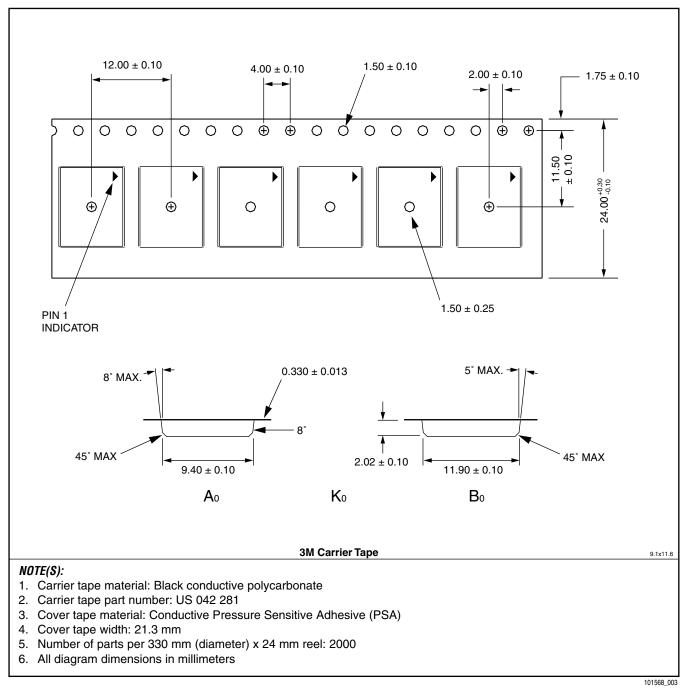
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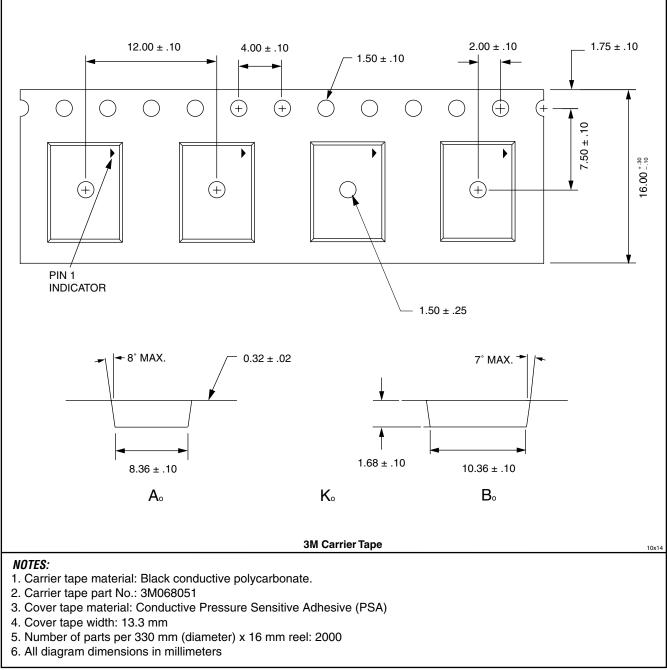












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Revision History

Revision	Level	Date	Description
А		April 24, 2002	Add: 4 x 4mm and 8 x 10 mm Tape and Reel Dwgs
В		May 10, 2002	Add: ESD information
С		July 12, 2002	Add: Table 2

References

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