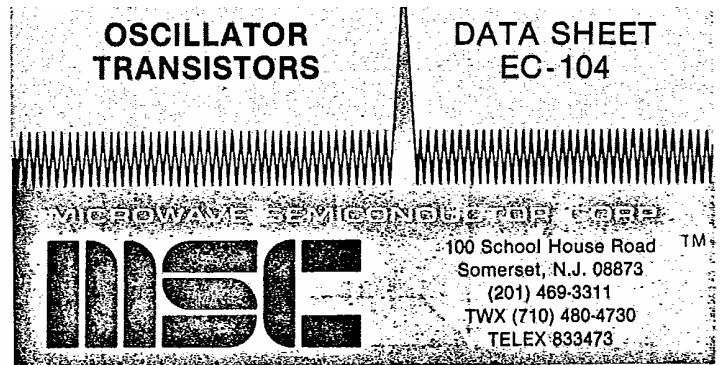
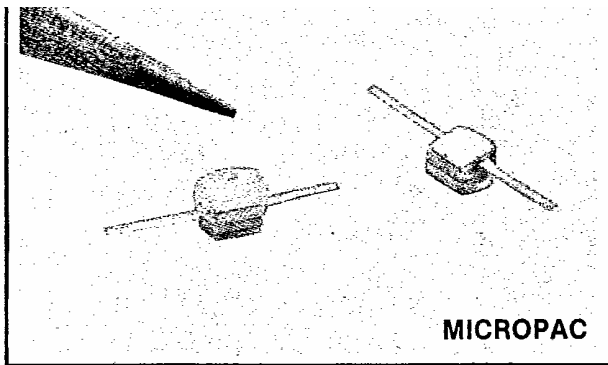




Issue May 1982

Product Description

The MSC "85600 Series" of devices are NPN, Silicon, overlay, *emitter site ballasted* transistors which are particularly well suited for application in S- and C-Band, Power Oscillator Circuits. Two separate transistor pellet designs are provided in either common-base, common-emitter or common-collector bonding configurations to provide the circuit designer with complete flexibility with regard to frequency, power output and circuit topology. These transistors are supplied in a low loss, low parasitic, metal ceramic, hermetic microminature MICROPAC package.

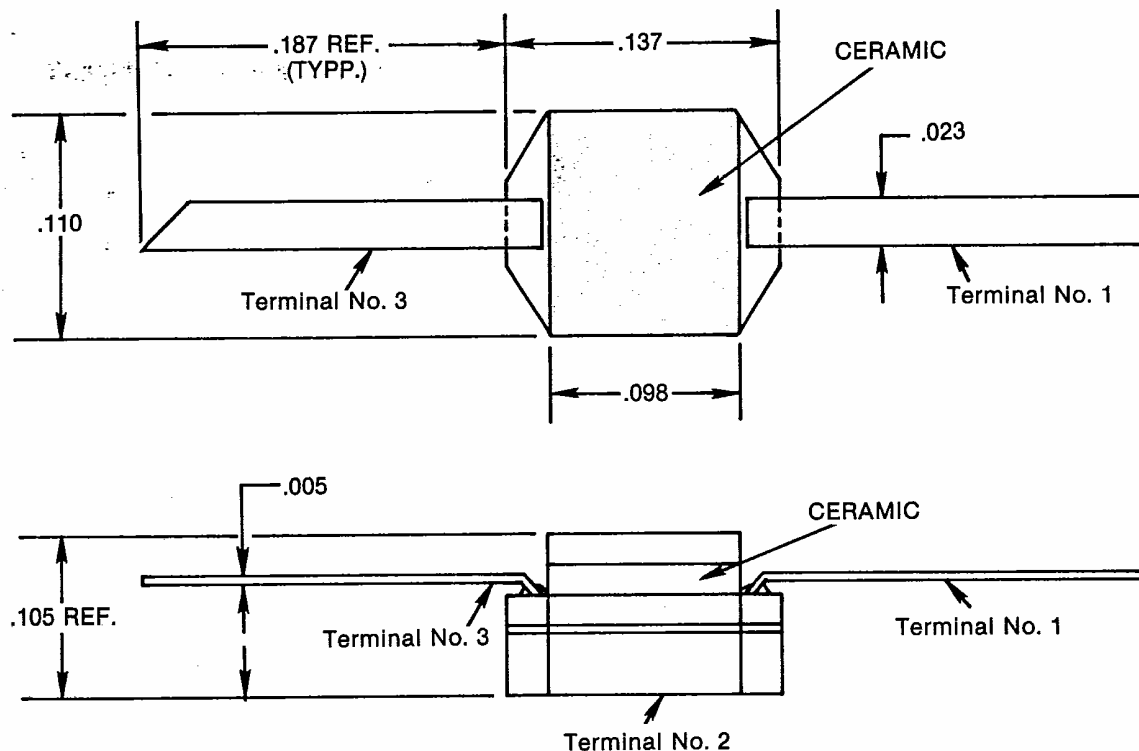
Features

- Complete Line of High-Power Microwave Oscillator Transistors
- Emitter Ballasting Resistors
- Transistors designed for Specific Frequencies and Voltages
- For Coaxial, Stripline and Lumped Element Circuits

Electrical Characteristics (@25 °C)

MSC TYPE	BOND CONFIG.	FREQ (GHz)	P _{OSC} (TYP) (W)	EFF (TYP) (%)	V _{CC} (V)	V _{CBO} @ 1 mA (V) (MIN)	V _{EBO} @ 0.1 mA (V) (MIN)	C _{OB} @ 20 V mA (PF)(MAX)	Θ _{J-C} °C/W
MSC 85601	CB	5.0	0.150	10	20	40	3.5	1.9	30
MSC 85602	CE	5.0	0.150	10	20	40	3.5	1.9	30
MSC 85603	CC	6.0	0.100	10	20	40	3.5	2.1	30
MSC 85604	CB	5.0	0.300	10	20	40	3.5	2.8	20
MSC 85605	CE	5.0	0.300	10	20	40	3.5	2.8	20
MSC 85606	CC	6.0	0.200	10	20	40	3.5	3.1	20

Outline Drawing



Notes: 1. All Tolerances are $\pm .005$ unless noted.
2. Outline Drawing Tolerance $\pm .010$

Dimensions in Inches

Terminal Connections

Common Base (CB)

Terminal No. 1	Emitter
Terminal No. 2	Base
Terminal No. 3	Collector

Common Emitter (CE)

Terminal No. 1	Base
Terminal No. 2	Emitter
Terminal No. 3	Collector



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