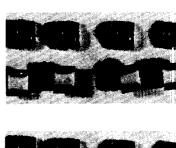
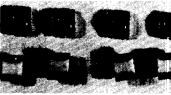


SURFACE MOUNT TUNING DIODES

Many popular axial leaded glass packaged tuning diode types are now available in the MSI 1M Case for surface mount assemblies. The tuning diode chips, mounted on high density alumina substrates, are epoxy coated to provide reliable operating performance in equipments ranging from mobile radios to cellular telephones. The cathode is readily distinguished from the anode by the white dot on the epoxy side and by the hexagon shape of the gold plated contact on the mounting side of the 1M Case.

Tuning Diode types not listed here may be ordered in the MSI 1M Case by replacing the two character prefix of the JEDEC or other type number by 1M. For example, to order the DO-7 packaged 1N5139 tuning diode in the 1M Case, specify the 1M5139; to order the MV1404, the 1M1404 is specified and other types are ordered in a similar manner. In some assemblies, the footprint of the 1M Case gold plated wraparound contacts may fit the solder pad layouts of surface mount diodes made by other manufacturers. Tuning diodes to meet special requirements for capacitance, capacitance ratio, Q and reverse voltage ratings will be quoted upon request.





MORE HYPERABRUPT

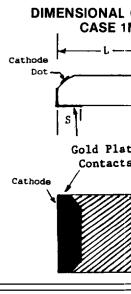
ELECTRICAL CHARACTERISTICS (TA = 25")

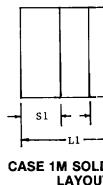
	D	iode C	apacit	ance,	CT (pf)*	Capacita	ce Ratio	Q2 @
	9	1V/1M	βz	e	2V/1M	z	C1/C10	C2/C10	1 MHz
Type No.	min	nom	max	min	nom	max	min	min	min
1M1412					- 8	12		10:1	200
1M1411	l		<u> </u>		12	18		10:1	200
1M1410	l				17	26		10:1	200
1M1409	l				27	39		10:1	200
1M1408	l				39	56		10:1	200
1M1407	l				56	80		10:1	200
1M1406	l				80	120		10:1	200
1M1404	ł			96	120	144		10:1	200
1M1403			 	140	175	210		10:1	200
1M1405				200	250	300		10:1	200
1M1402				301	360	432		10:1	200
1M1401	468	550	633				14:1		200
VR (min)				12 V	dc @ II	R=10 ui	Adc		
IR (max)				0.01	ıAdc @	VR=10	Vdc		

*To order devices with CT Nom. ±10%, add suffix A; for ±5%, add suffix B.

	Case 1M							
	Millin	neters	Inches					
Dim L	min 3.15		min 0.124	max 0.135				
W	2.41	2.62 0.84	0.095	0.103				
Т	0.09	1.17	0.036	0.046				

	1M Solder Pad Layout						
	Milli	meters	Inches				
im.	min	max	min	max			
1	3.47	3.63	0.136	0.143			
V 1	2.82	3.07	0.111	0.121			
31	1.14	1.35	0.045	0.053			



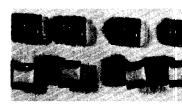


SURFACE MOUNT TUNING DIODES

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MORE HYPERABRUPT

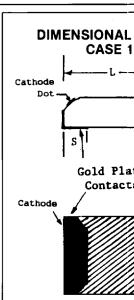
ELECTRICAL CHARACTERISTICS (TA = 25°)

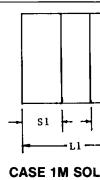
		n.	Lode Ca	nacit:	2700	ግጥ / አ .€	۱.*	Capacita	nce Ratio	Q2 @
6			1V/1M	-		2V/1M	-	C1/C10	C2/C10	1 MHz
	Muna No	min			min		1	min	min	min
	Type No.	min	nom	max	min	nom	max			I ————————————————————————————————————
	1M1412					8	12		10:1	200
	1M1411					12	18		10:1	200
	1M1410					17	26		10:1	200
	1M1409					27	39		10:1	200
	1M1408					39	56		10:1	200
	1M1407					56	80		10:1	200
1	1M1406					80	120		10:1	200
1	1M1404				96	120	144		10:1	200
1	1M1403				140	175	210	i	10:1	200
1	1M1405				200	250	300		10:1	200
	1M1402				301	360	432		10:1	200
	1M1401	468	550	633				14:1		200
ĺ	VR (min)				12 V	ic (II	R=10 u	Adc		
	IR (max)				0.01 1	Adc @	VR=10	Vdc		

^{*}To order devices with CT Nom. ±10%, add suffix A; for ±5%, add suffix B.

	Case 1M							
	Millin	neters	Inches					
Dim	min	max	min	max				
L	3.15	3.43	0.124	0.135				
W	2.41	2.62	0.095	0.103				
S	0.69	0.84	0.027	0.033				
T	0.91	1.17	0.036	0.046				

	1M Solder Pad Layout							
	Milli	meters	Inches					
im.	min	max	min	max				
L1	3.47	3.63	0.136	0.143				
W1	2.82	3.07	0.111	0.121				
S1	1.14	1.35	0.045	0.053				





LAYOU