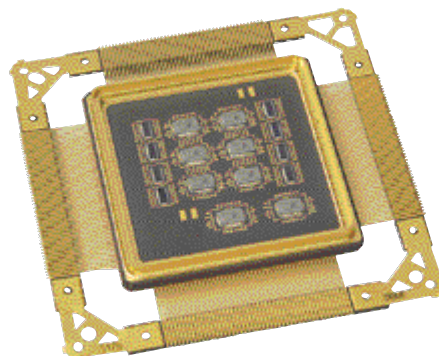


■ **64 & 128 Channel** **Analog Multiplexers**

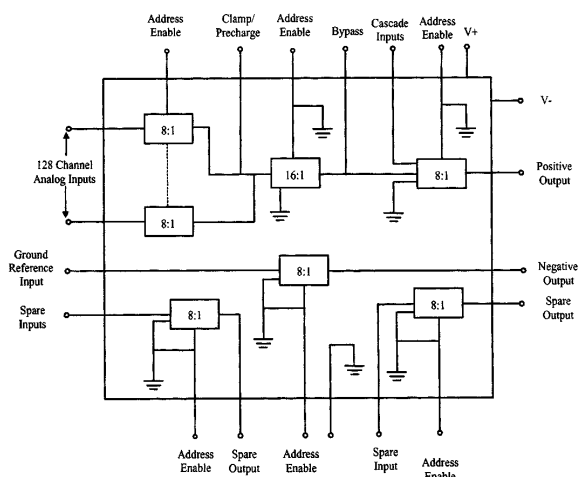
- **High "OFF" isolation (68 dB typical @ 300 kHz)**
- **Over-voltage and fault protected**
- **Replaces eight industry standard 1840RH, 16:1 analog multiplexers**
- **Total dose hardness dependent upon orbit, available as Radiation Enhanced (RE) or Radiation Hardened (RH) versions.**



Space Electronics analog multiplexers

Space Electronics' 64 and 128 Multi-Chip-Module (MCM) channel analog multiplexers feature commercial silicon made suitable for space applications through Space Electronics' RAD-PAK™ radiation tolerance enhancing packaging technology. They are a cost-effective alternative to specialty components designed specifically for the space market. The 64 and 128 channel multiplexer can provide 100 Krad (si) total dose tolerance in the radiation enhanced (RE) version and 300 Krad to 1 Mrad total dose tolerance in the rad-hard (RH) version.

Multiplexer Block Diagram

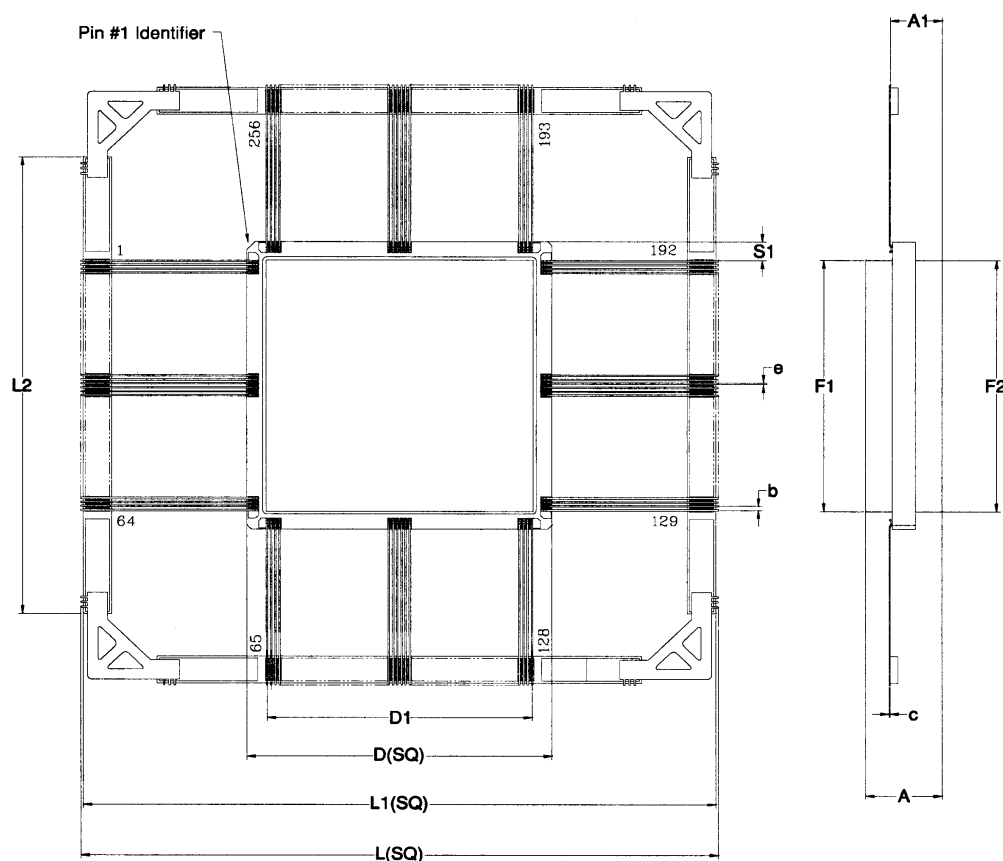


Multiplexer Maximum Ratings

PARAMETER	RATING
V+ to ground	±20 V
V- to ground	-20 V
Power supply range	±5.2 to ±20 V
Input overvoltage	+25 over V+ and -25 below V
-AIN(1) to AIN (2)	-(Power ON/OFF)
Input Overvoltage	4V over V + and -4V below V
External Current Source	5mA
Storage Temperature	-65°C to 150°C
Operating Temperature	-55°C to 125°C
Power Dissipation	500mA



Multiplexer Diagram



Multiplexer Dimensions

SYMBOL	DIMENSION		
	MIN	NOM	MAX
A	0.342	0.360	0.379
b	0.005	0.007	0.009
c	0.004	0.006	0.010
D	1.285	1.300	1.315
D1		1.260 BSC	
e		0.020 BSC	
S1	0.013	0.092	--
F1	1.265	1.270	1.275
F2	1.265	1.270	1.275
L	3.010	3.040	3.070
L1	2.070	3.000	3.030
L2	2.270	2.300	2.330
A1	0.098	0.110	0.122
N		256	



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