



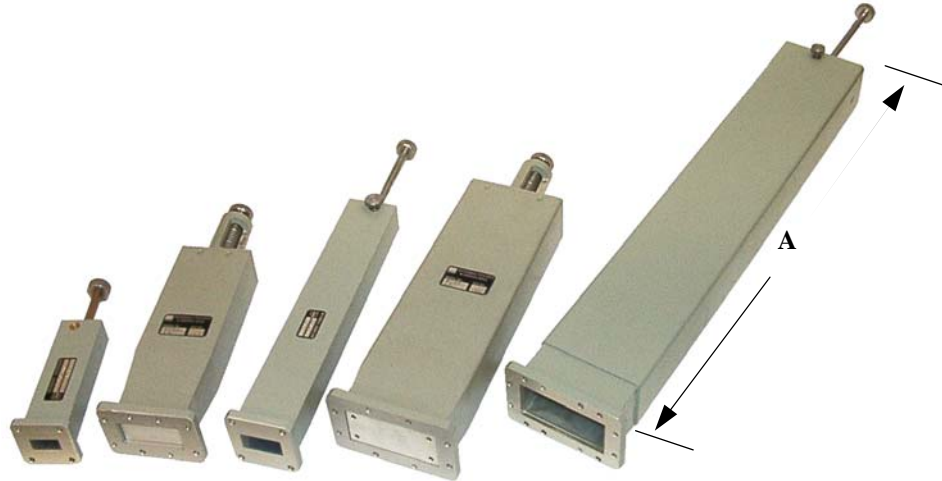
RECTANGULAR WAVEGUIDE SLIDING SHORT CIRCUITS 280-LSC SERIES

**DATA
SHEET
No. T61B**

- **LOW LOSS**
- **FULL BAND**
- **NON-CONTACTING**

DESCRIPTION

MEC 280-LSC Sliding Short Circuits are simple, low-loss devices which provide a movable short circuit in waveguide. The shorts are adjustable over more than half a guide wavelength at the lowest frequency of operation. Resettable movement is achieved via micrometer drive (P through A) or sliding shaft (LM through M) when scale or vernier is included.



Models from LM through D contain two-stage non-contacting folded cavity short circuits. Those from J through A contain non-contacting shorting plungers of the circular, multi-choke type. Both are highly efficient. Return loss is typically less than 0.3dB over the full waveguide band. Waveguide is aluminum with chromate conversion finish per MIL-C-5541 Class 3. All units contain locking mechanisms. External non-mating surfaces are painted with gray epoxy enamel.

SPECIFICATIONS

MODEL NUMBER	FREQUENCY RANGE (GHz)	WAVEGUIDE SIZE	EQUIVALENT FLANGE	LENGTH A (INCHES) MAX.
LM280-LSC	1.45 - 2.20	WR-510	UG - 1717/U	22.0
LA280-LSC	1.70 - 2.60	WR-430	UG - 437B/U	17.0
LS280-LSC	2.20 - 3.30	WR-340	UG - 554A/U	13.0
S280-LSC	2.60 - 3.95	WR-284	UG - 584/U	10.0
B280-LSC	3.30 - 4.90	WR-229	CMR - 229	8.5
G280-LSC	3.95 - 5.85	WR-187	UG - 407/U	7.0
D280-LSC	4.90 - 7.05	WR-159	CMR - 159	5.5
J280-LSC	5.85 - 8.20	WR-137	UG - 441/U	4.5
H280-LSC	7.05 - 10.0	WR-112	UG - 138/U	4.0
W280-LSC	7.0 - 11.0	WR-102	M3922/70 - 002	4.0
X280-LSC	8.2 - 12.4	WR-90	UG - 135/U	4.0
M280-LSC	10.0 - 15.0	WR-75	M3922/53 - 008	4.0
P280-LSC	12.4 - 18.0	WR-62	UG - 1665/U	4.0
N280-LSC	15.0 - 22.0	WR-51	M3922/70 - 010	3.5
K280-LSC	18.0 - 26.5	WR-42	UG - 595/U	3.5
Y280-LSC	22.0 - 33.0	WR -34	UG - 1530/U	3.5
A280-LSC	26.5 - 40.0	WR-28	UG - 599/U	3.5

ORDERING INFORMATION

- 1) Order by model number. Add "S" or "V" if optional scale or vernier is desired with sliding shaft.
 - 2) Other flanges, bands, and lengths available on request.
 - 3) Fixed short circuits with waveguide cover flanges are also available. Add suffix "FSC" to model number.
- EXAMPLE: P280 - FSC is a WR-62 waveguide fixed shorting plate with hole pattern the same as cover flange.