



**AMERICAN MICROWAVE
CORPORATION**

MINIATURE TRANSFER SWITCH

KEY FEATURES

- 500 MHz TO 18 GHz
(10MHz to 18GHz optional)
- LOW INSERTION LOSS
- HIGH SPEED
- TTL LOGIC COMPATIBLE
- SURFACE MOUNTABLE



AMC MODEL No: SWN-2181-TRA OPTIONS 0518, 2SH

SPECIFICATIONS: (NON-REFLECTIVE)

• FREQUENCY RANGE	:	500 MHz to 18 GHz (10MHz to 18GHz Optional)
• INSERTION LOSS	:	3.0 dB MAX.
	:	1.30 dB TYP. @ 500 MHz
	:	1.40 dB TYP. @ 2.0 GHz
	:	1.75 dB TYP. @ 6.0 GHz
	:	2.75 dB TYP. @ 14.0 GHz
	:	3.00 dB TYP. @ 18.0 GHz
• ISOLATION	:	≥ 60 dB MIN.
	:	≥ 35 dB TYP. @ 500 MHz
	:	≥ 90 dB TYP. @ 2.0 GHz
	:	≥ 80 dB TYP. @ 6.0 GHz
	:	≥ 70 dB TYP. @ 14.0 GHz
	:	≥ 70 dB TYP. @ 18.0 GHz
• VSWR	:	2.0:1
• SWITCHING SPEED	:	"RISE" 15nS MAX., 10nS TYP.
(10%/90% RF TO 90%/10% RF)	:	"FALL" 15nS MAX., 10nS TYP.
(50% TTL TO 90%/10% RF)	:	"ON" 75nS MAX., 100nS TYP.
	:	"OFF" 75nS MAX., 100nS TYP.
• CONTROL	:	SINGLE CONTROL TTL COMPATIBLE
• VIDEO TRANSIENTS	:	≤900 mV Peak to Peak, 300 MHZ Bandwidth
	:	≤220 mV Peak to Peak, 20 MHZ Bandwidth
• RF INPUT POWER	:	+20dBm Operating, 1 Watt Survival (Other power Levels available)
• DC POWER SUPPLY	:	+5vdc @ +100mA MAX.
(Other supply voltages available)	:	-12vdc @ -100mA MAX.
• SIZE	:	1.00"(L) X 1.00"(W) X 0.50"(H)
• WEIGHT	:	≤ 1.5 oz.

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7311 G GROVE ROAD, FREDERICK, MARYLAND 21704 • Tel. (301) 662-4700 • Fax (301) 662-4938