



Specifications

FREQUENCY BAND	K	Ka	Q	U	V	E	W
Frequency Range (GHz)	18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Flange Pattern	UG-595/U	UG-599/U	UG-383/U	UG-383/U	UG-385/U	UG-387/U	UG-387/U
Bandwidth (GHz)	Full Band						
Isolation (dB typical)	60				55		
Insertion Loss (dB max)	0.4	0.4	0.5	0.5	0.6	0.7	0.8
VSWR (Typical)	1.15:1						
Control Interface	TTL						
Switching Speed (ms typ)	50						
DC Power Requirement	15VDC/2.0A or 28VDC/1.0A pulse typical						
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Dimensions

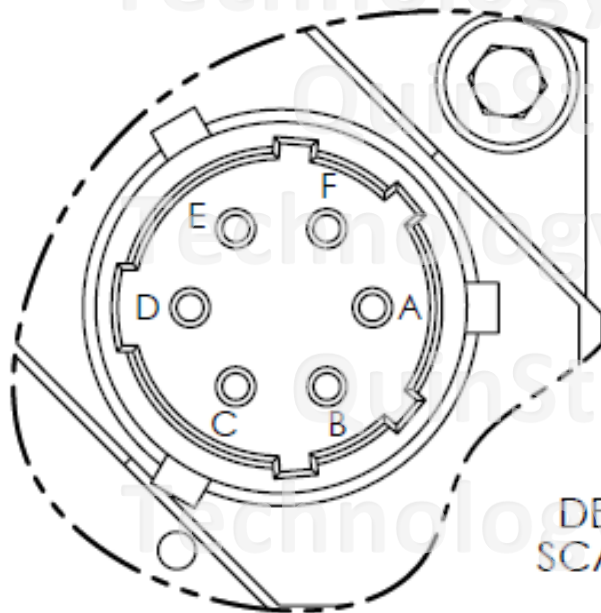
WR-XX	A	B	C	D	UG-XXX/U	FLANGE THREADED HOLE
WR-42	.420	.170	.83	4.83	UG-595/U	#4-40 THD ∇ .18
WR-28	.280	.140	.73	4.67	UG-599/U	
WR-22	.224	.112	.72	4.59	UG-383/U	
WR-19	.188	.094	.71		UG-383/U-M	
WR-15	.148	.074	.70		UG-385/U	
WR-12	.122	.061	.69		UG-387/U	
WR-10	.100	.050		UG-387/U-M		

Logic Table and Wiring

SWITCH STATE	TTL 1	TTL 2
PORTS 1 TO 4	+5 V	0 V
PORTS 1 TO 2	0 V	+5 V
Previous State	0 V	0 V
<p>* Do not apply +5V to both TTL1 and TTL2 simultaneously * Apply 0V to both TTL1 and TTL2 before changing switch state</p>		
SWITCH STATE	MONITOR VOLTAGE	
	PIN -A	PIN -B
PORTS 1 TO 4	V+	0 V
PORTS 1 TO 2	0 V	V+
PIN ALPHA DESIGNATION	FUNCTION	WIRE COLOR
A	MONITOR 2	ORANGE
B	MONITOR 1	BROWN
C	TTL 1 (0 V, +5V)	BLUE
D	TTL 2 (0 V, +5V)	GREEN
E	DC INPUT V+ (+15V or +28 V)	RED
F	GND	BLACK & WHITE
<p>** 1TTL configuration: Connect TTL input to PIN-D only 2TTL configuration: Connect TTL1 and TTL2 inputs to PIN-C and PIN-D respectively</p>		

Outlines

MS3112E10-6P
MATE WITH MS3116F10-6S



DETAIL P
SCALE 2 : 1

