

Description

Mi-Wave's 180 series is an H-plane, three-junction, three-port, Y-junction ferrite device. All external mating surfaces are machined to extreme flatness to provide connection to standard waveguide flanges for minimum discontinuity.

- **Low Loss**
- **Low VSWR**
- **High Isolation (30 db typ.)**

The 180 Series circulators are available in standard wave-guide sizes from 18.00 to 110 GHz.

Applications

The 180 Series Y-junction circulators are useful in radar, sensing and communication systems.



Dimensional Specifications

Model No.	A		B		C		D		E	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
180K	K-W Band please consult MI-Wave for current outline									
180A										
180B										
180U										
180V										
180E										
180W										

TECHNICAL SPECIFICATIONS

(TYPICAL)

Model No.	180K	180A	180B	180U	180V	180E	180W
Frequency Band (GHz)	18–26.5	26.5–40	33–50	40–60	50–75	60–90	75–110
Bandwidth ¹	1.2 GHz	1.2 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz	1.0 GHz
Isolation ² (dB) (typ)	>30	>30	>30	>30	>30	>30	>30
Insertion Loss (dB) (typ)	0.7	0.8	0.9	1.0	1.2	1.4	1.5
VSWR (typ)	1.30	1.30	1.30	1.35	1.40	1.4	1.4
Temperature Range	-0° to +40°C				0° to +40°C		
Peak Power (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Power (Watts)	30	30	25	15	10	5	5
Weight (oz)	3.0	3.0	3.0	3.0	5.0	5.0	5.0
Flange Type	UG-595/U	UG-599/U	UG-383/U	UG-383/U	UG-385/U	UG-387/U	UG-387/U

1. Specify center frequency.

Ordering Information

