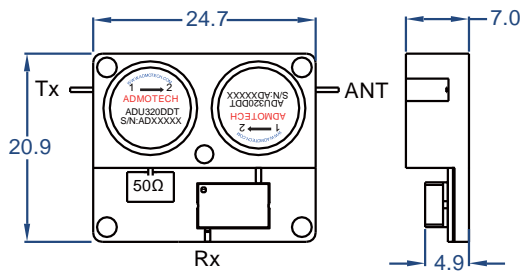


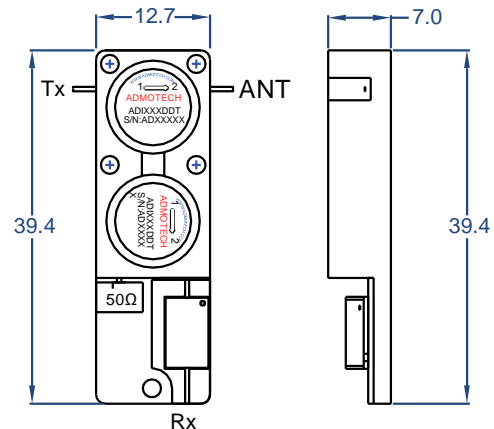
# CIL(Circulator-Isolator-Limiter) for S-band RADAR

ADMOTTECH developed a S-band CIL & ICL for military applications.

- Two-stage silicon PIN diode limiters
- High peak and average power capacity
- Robust design for shock and vibration



ICL-U320DDT(500)



CIL-U320DDT(500)

## Product Features

- Low Insertion Loss
- High Peak Power Handling(100W-pk)
- Low Flat Leakage Power (15 dBm)
- Low spike leakage and recovery time
- RoHS Compliant
- Custom Design Available

Parameter	Maximum
Forward Power(CW)	50W
Reverse Power(CW)	10W
Operating Temperature	-40 ~ -85 °C

## Electrical Specifications ( #1 : TX, #2 : ANT, #3 : RX )

$Z_0=50\Omega$ ,  $T_A = +25^\circ\text{C}$ , as measured in Admotech evaluation board(Unless Otherwise Defined)

Part No.	Center Freq. (MHz)	Band width [MHz]	Ins. Loss [dB]		VSWR	Iso.	Flat Leakage [dBm]	Recovery Time [uS]	Peak Power [W-pk]	CW Power [W]
			#1→#2	#2→#3						
CIL-U320DDT (500)	3200	500 (16%)	0.9	1.2	1.4:1 (15dB)	>34	15	1	100	10
ICL-U320DDT (500)	3200	500 (16%)	0.5	1.5	1.4:1 (15dB)	>34	14	1	100	10