



C-Band Diplexer, 16A6BA

Renaissance's Diplexer 16A6BA is designed to separate frequencies in the 3.3 to 6.0 GHz band from DC to 2.5 GHz band with low loss and high rejection criteria. The diplexer is compact and light weight and suitable for air-borne applications.

ELECTRICAL CHARACTERISTICS		PATH 1	PATH 2	UNIT
PATH DEFINITION	-	J1 TO J2	J1 TO J3	-
PASSBAND DEFINITION	-	DC-2500	3300-6000	MHz
CROSSOVER POINT \pm 2%		2900		MHz
REQUIREMENTS	-	-	-	-
TOTAL INSERTION LOSS WITHIN PASSBAND (INCLUDING FLATNESS)	\leq	1.5	1.5	dB
PASSBAND FLATNESS	\leq	1.5	1.5	dB
INPUT (J1) RETURN LOSS WITHIN PASSBAND	\geq	12	12	dB
OUTPUT (J2 - J3) RETURN LOSS WITHIN PASSBAND	\geq	12	12	dB
LOSS CROSSOVER POINT	\leq	5.5		dB
REJECTION 3300 TO 6000 MHz	\geq	30	-	dB
REJECTION DC TO 2500 MHz	\geq	-	30	dB
POWER HANDLING CAPABILITY	\geq	1		W
OPERATING TEMP RANGE (HUMIDITY (NON-CONDENSING))		0 TO 70 (8 TO 85%)		$^{\circ}$ C
NON-OPERATING TEMP. RANGE		-40 TO 85		$^{\circ}$ C