

Model THC270320U

Technical Data Sheet			
Frequency Range	27~32GHz	Finish	Painted Blue_ RAL #5007
Nominal Split	6.02dB	Connector Body	Passivated Stainless Steel
Isolation	≥16dB	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
¹ Amplitude Balance	≤±2.0dB		
Phase Balance	≤±20°	Connector Pin	Beryllium Copper, Gold Plate
VSWR	≤2.20:1	Solder	Lead Free, RoHS Compliant
² Power Handling	Average ≤50Watt Peak ≤1KW	Operating Temperature	-40~+85℃
Impedance	50Ω	Operating Humidity	Up to 95%,Non- Condensing
Port Connectors	2.92mm-Female	Weight	360g

¹1.2 dB maximum from the 0.0 dB reference at any specific frequency point within the frequency range.

²Power Handling guaranteed when load's VSWR within 1.50:1.

Table 1: Output magnitude with 4 identical input signals at A, B, C and D

Excluding power divider and cable's insertion loss.

Output	Value (dB)	Description
Σ	≤2	(A+B)+(C+D)
ΔZ	≥20	(A+B)-(C+D)
ΔEL	≥20	(A+C)-(B+D)
ΔQ	≥20	(A+D)-(B+C)

Table 2: Phase Offset for each port in reference to normalized A to Σ .

	Σ	ΔZ	ΔEL	ΔQ
Phase Offset for Input A	0	0	180	180
Phase Offset for Input B	0	0	0	0
Phase Offset for Input C	0	180	0	180
Phase Offset for Input D	0	180	180	0

Table 3: Isolation at A,B,C and D.

	A	B	C	D
A	X	ISO	ISO	ISO
B	ISO	X	ISO	ISO
C	ISO	ISO	X	ISO
D	ISO	ISO	ISO	X



Table 4: Isolation at Σ , ΔEL , ΔAZ and ΔQ .

	Σ	ΔAZ	ΔQ	ΔEL
Σ	X	ISO	ISO	ISO
ΔAZ	ISO	X	ISO	ISO
ΔQ	ISO	ISO	X	ISO
ΔEL	ISO	ISO	ISO	X

Outline Drawing

